

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

REDACTED VERSION

**TANK WASH WORK ORDER**

24411

PO #	Customer: <u>CES</u>	Date: <u>7/1/09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>1412</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☒ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>N/A</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>100</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry	<u>✓</u>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<u>✓</u>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	<u>✓</u>	
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date: 7/1/09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001049

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24411**

PO #	Customer: <u>CES</u>	Date: <u>7/1/01</u>
Tractor	Address:	Time:
Trailer / Container Number <u>1402</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☒ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>100</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		
8 Detergent Wash, Rinse & Dry		Comments: _____
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: TE Date: 7/1/01

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001050

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Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24784**

PO # 88823	Customer: CES	Date: 07-13-09
Tractor 281	Address:	Time:
Trailer / Container Number 223	Dropped By: Rob. Hickman	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Reg. waste water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 10 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 2 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 2 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 2 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JR
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date: 7-13-09

Inspected By: Date:

Print Name: Date:

Signature:

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EPAHO082001051

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24781**

PO #	Customer: <b>CES / Kinder Morgan</b>	Date: <b>4-13-09</b>
Tractor <b>0000</b>	Address:	Time: <b>3:45</b>
Trailer / Container Number <b>V-127</b>	Dropped By: <b>Botly Rodriguez</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☒ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	<b>Class 1 Sludge.</b>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>10</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>[Signature]</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **SE**Date: **4/13/09**

Inspected By: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001052

**Environmental Services**

Trainer / Tank Cleaning Division  
904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24864**

PO #	Customer: <u>CES</u>	Date: <u>07-13-09</u>
Tractor <u>298</u>	Address:	Time:
Trailer / Container Number <u>234</u>	Dropped By: <u>ROLANDO MORALES</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Waste Water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry ✓		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		_____
19 Hydroblaster (# Hours)		_____
20 Solvent Wash (Green Stripper)		_____
21 Passivation		_____
Hose Cleaning		_____
Pump Cleaning		_____

Cleaned By: JR Date 7-13-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

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Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001053

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24789**

PO #	Customer: <b>CES</b>	Date: <b>7-15-9</b>
Tractor	Address:	Time:
Trailer / Container Number <b>271</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>W. Water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>21.6</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date: **7-15-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001054

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24790**

PO # <b>REC</b>	Customer: <b>CES</b>	Date: <b>7-15-09</b>
Tractor	Address: <b>4904 Griggs</b>	Time: <b>3:49 P.M.</b>
Trailer / Container Number <b>213 <del>413</del></b>	Dropped By:	Need By: <b>TODAY</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Base Oil</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>SL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<b>Need Tonight</b>
9 Caustic Wash & Dry		<b>by 7:00 P.M.</b>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **SL** Date: **7-15-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

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Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001055

# Environmental Services

# TANK WASH WORK ORDER

Trainer / Tank Cleaning Division  
904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

24866

PO #	Customer: CES	Date: 7/21/09
Tractor	Address:	Time: 9:04
Trailer / Container Number: 206	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 412				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: Drum Heel 206 M.W. # 00345 21608 Catch 1st Flashed Hazard
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: A.R. Date: 7-21-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001056

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24890

PO #	Customer: <i>CES Environmental</i>	Date: <i>7/22/09</i>
Tractor	Address:	Time: <i>1530</i>
Trailer / Container Number <i>210</i>	Dropped By: <i>Savier</i>	Need By: <i>ASAP</i>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Non-Sol / Non-Regulated Oil</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
5 Steam Only (Per Hour)		Signature: <i>[Signature]</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <i>Clean and Dry</i>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *C.P.* Date *7-22-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001057

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24890**

PO #	Customer: <i>CES Environmental</i>	Date: <i>7/22/09</i>
Tractor	Address:	Time: <i>1530</i>
Trailer / Container Number <i>210</i>	Dropped By: <i>Tavler</i>	Need By: <i>ASAP</i>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Non-Sol / Non-Regulated Oil</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <i>10</i> #2 <i>10</i> #3 <i>10</i> #4 <i>10</i> #5 <i>10</i>
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
5 Steam Only (Per Hour)		Signature: <i>[Signature]</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <i>Clean and Dry</i>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *C.P.* Date: *7-22-09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001058

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24889**

PO # <b>89135</b>	Customer: <b>CES</b>	Date: <b>07-22-09</b>
Tractor <b>290</b>	Address:	Time:
Trailer / Container Number <b>V-153</b>	Dropped By: <b>Rob. Hickman</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☒ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>waste sludge</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>AR</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <b>3/4 yrd. Heel left</b>
8 Detergent Wash, Rinse & Dry ✓		<div style="border: 1px solid black; border-radius: 50%; padding: 20px; text-align: center;">APPROVED Per Jenny</div>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours) ✓		Authorized Additional Services:
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **AR JR** Date: **7-27-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001059

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24895**

PO #	Customer: <u>CES Environmental</u>	Date: <u>7/23/09</u>
Tractor	Address:	Time: <u>1400</u>
Trailer / Container Number <u>271</u>	Dropped By: <u>Savies</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Oily water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>Clean and dry</u>
9 Caustic Wash & Dry		<u>ASAP</u>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JK Date: 7-23-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: Savies Date: 7/23/09

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001060

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24895**

PO #	Customer: <u>CES Environmental</u>	Date: <u>7/23/09</u>
Tractor	Address:	Time: <u>1400</u>
Trailer / Container Number <u>271</u>	Dropped By: <u>Savio</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Oil water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
5 Steam Only (Per Hour)		Signature: <u>JD</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <u>Clean and Dry</u> <u>ASAP</u>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		Authorized Additional Services:
Pump Cleaning		

Cleaned By: JK Date: 7-23-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Savio Date: 7/23/09

Signature: \_\_\_\_\_

EPAHO082001061

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24637

PO #	Customer: <i>Andrews</i>	Date: <i>6-25-09</i>
Tractor	Address:	Time:
Trailer / Container Number <i>7356</i>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Re wash</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>JK</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>JK</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		
8 Detergent Wash, Rinse & Dry		Comments:
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JK* Date: *6-25-09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001062

# **CES Environmental Services**

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## **TANK WASH WORK ORDER**

**24632**

PO #	Customer: <u>Baker</u>	Date: <u>6-24-09</u>
Tractor	Address:	Time: <u>5:30</u>
Trailer / Container Number <u>G3795DL</u>	Dropped By: <u>Mark</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>WATER / oil slurry</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>100%</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date: 6-25-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001063

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24638**

PO #	Customer: <u>Baker</u>	Date: <u>6-25-09</u>
Tractor <u>704</u>	Address:	Time:
Trailer / Container Number <u>5626092</u>	Dropped By: <u>Amuly</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21</u> #2 <u>9</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date: 6-25-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantee with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001064

# Environmental Services

Tank Cleaning Division  
 10000 S. Rd. • Houston, TX 77021  
 (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24718

U #	Customer: <i>Retro Chip</i>	Date: <i>7/1/09</i>
Tractor <i>70-1</i>	Address:	Time: <i>17:00</i>
Trailer / Container Number <i>MX 481502</i>	Dropped By: <i>[Signature]</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
5 Steam Only (Per Hour)		Signature: <i>ST</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<input checked="" type="checkbox"/>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<input checked="" type="checkbox"/>	
12 Solvent Wash (Diesel # Hours)	<input checked="" type="checkbox"/>	
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	<input checked="" type="checkbox"/>	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *ST* Date *7-7-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001065

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24713**

PO #	Customer: <u>Bellzeye</u>	Date: <u>7-1-09</u>
Tractor <u>01</u>	Address:	Time:
Trailer / Container Number <u>1216</u>	Dropped By: <u>Sean</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Crude oil</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>2</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. Date 7-2-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001066

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24712**

PO #	Customer: <u>Bullz Eye</u>	Date: <u>7/1/08</u>
Tractor	Address:	Time: <u>12:10</u>
Trailer / Container Number <u>362-1</u>	Dropped By: <u>Sean</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>1.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JV</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H-JL Date: 7-1-9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001067

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24539

PO #	Customer: <b>CAS TRUCKING</b>	Date: <b>6/30/09</b>
Tractor <b>209</b>	Address: <b>8019 SAN GABRIEL LAREDO, TX</b>	Time:
Trailer / Container Number <b>133</b>	Dropped By: <b>ROBERTO DELA TORO</b>	Need By: <b>8:00AM</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Carbon monoxide</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>Per</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>C.P.</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<b>CHECK # 11036</b>
9 Caustic Wash & Dry		<b>\$145.00</b>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date: **6-30-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001068

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24627**

PO # <b>88906</b>	Customer: <b>CES</b>	Date: <b>6-24-9</b>
Tractor	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Koper &amp; pump</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning	<b>3-3'</b>	

Cleaned By: **JE** Date: **6-24-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001069

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24642**

PO # <u>24642</u>	Customer: <u>CES</u>	Date: <u>6/25/09</u>
Tractor <u>24642</u>	Address:	Time:
Trailer / Container Number <u>206</u>	Dropped By: <u>ALFONSO</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Roll off
1				
2	<u>NEEDS</u>		<u>110 500</u>	
3	<u>WASH</u>			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>01.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>SL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: SL Date: 6-25-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001070

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24659**

PO #	Customer: <b>CES</b>	Date: <b>6-26-09</b>
Tractor <b>290</b>	Address:	Time: <b>5:00</b>
Trailer / Container Number <b>233</b>	Dropped By: <b>Candido</b>	Need By:

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>NON PCRA</b>				
2 <b>DOT Regulated waste water</b>				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <b>20.1</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: *
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date: **6-28-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001071

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24665**

PO #	Customer: <b>CES</b>	Date: <b>6.26.9</b>
Tractor	Address:	Time:
Trailer / Container Number <b>228</b>	Dropped By: <b>JAVIER</b>	Need By:

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>W Water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>BH</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **B-H** Date: **6.26.9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001072

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24657**

PO #	Customer: <u>CES</u>	Date: <u>6-26-9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>254</u>	Dropped By: <u>AVIR R</u>	Need By:

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>W. Water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date 6-26-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001073

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24651**

PO #	Customer: <u>CES / Dynamic</u>	Date: <u>6-26-9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>FTS17</u>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Oil sludge</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date 6-27-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001074

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24655**

PO #	Customer: <b>CES</b>	Date: <b>6-26-09</b>
Tractor <b>105</b>	Address:	Time: <b>3:00</b>
Trailer / Container Number	Dropped By: <b>Jose Espinal</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Class 1 sludge</b>		<b>1 - Drum</b>	<input checked="" type="checkbox"/>
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
2 Quick Rinse		LEL (<10%) #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: A.R.Date: 6-29-09

Inspected By: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001075

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24669**

PO #	Customer: <b>CES</b>	Date: <b>6/29/09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>4109</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>oil water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<b>Clean</b>
9 Caustic Wash & Dry		<b>LI</b>
10 Caustic Wash, Rinse & Dry		<b>FRASE 0.1</b>
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date: **6-29-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001076

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24668**

PO #	Customer: <u>CEC</u>	Date: <u>6/29/09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>4110</u>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>BAK</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>20</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date 6-29-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001077

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24678**

PO #	Customer: <u>CES</u>	Date: <u>1/29/09</u>
Tractor	Address:	Time: <u>9:00 p.m.</u>
Trailer / Container Number <u>205</u>	Dropped By: <u>Chris Campbell</u>	Need By: <u>5 AM</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>1</u> #2 <u>2</u> #3 <u>3</u> #4 <u>4</u> #5 <u>5</u>
2 Quick Rinse		LEL (<10%) #1 <u>1</u> #2 <u>2</u> #3 <u>3</u> #4 <u>4</u> #5 <u>5</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>1</u> #2 <u>2</u> #3 <u>3</u> #4 <u>4</u> #5 <u>5</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 <u>2</u> #3 <u>3</u> #4 <u>4</u> #5 <u>5</u>
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JL Date 6-29-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001078

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24541**

PO #	Customer: <u>CES Environmental</u>	Date:
Tractor <u>105</u>	Address:	Time:
Trailer / Container Number	Dropped By: <u>Sauier R.</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Oil / Water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <input checked="" type="checkbox"/>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry <input checked="" type="checkbox"/>		
11 Waste Water Surcharge <input checked="" type="checkbox"/>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date 6-3-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Sauier Date 6/30/09Signature: [Signature]

EPAHO082001079

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24694**

PO # <u>88356</u>	Customer: <u>CES</u>	Date: <u>6/30/09</u>
Tractor <u>281</u>	Address:	Time: <u>8</u>
Trailer / Container Number <u>233</u>	Dropped By: <u>Savio</u>	Need By: <u>Tonight ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Waste Water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>Clean dry and</u>
9 Caustic Wash & Dry		<u>3 hoses on the trailer</u>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JL Date: 6-30-9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001080

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24695**

PO # <b>88369</b>	Customer: <b>CES</b>	Date: <b>6/30/09</b>
Tractor <b>289</b>	Address:	Time:
Trailer / Container Number <b>228</b>	Dropped By: <b>Sauier</b>	Need By: <b>Tonight ASAP</b>

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Waste Water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JS</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>clean &amp; dry and</u>
9 Caustic Wash & Dry		<u>(S) 3" hoses</u>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JS Date 6.30.9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001081

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24722**

PO # <b>88545</b>	Customer: <b>CES</b>	Date: <b>7-1-9</b>
Tractor	Address:	Time:
Trailer / Container Number <b>228</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>crankcase additive</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JL** Date **7-1-9**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001082

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24720**

PO #	Customer: <b>CES</b>	Date: <b>7-1-9</b>
Tractor	Address:	Time:
Trailer / Container Number <b>221</b>	Dropped By: <b>JAVIER R.</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	light Ends			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>20.1</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>ST</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brine Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **ST** Date: **7-1-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001083

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24719**

PO # <b>88370</b>	Customer: <b>CES</b>	Date: <b>7-1-9</b>
Tractor	Address:	Time:
Trailer / Container Number <b>271</b>	Dropped By: <b>JAVIER R</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	crank case additive			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date: 7-2-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001084

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24702**

PO #	Customer: <b>CES</b>	Date: <b>7/01/09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>244</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>WASP</b> <b>water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>2</b> #2 <b>2</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 <b>2</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>2</b> #2 <b>2</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>2</b> #2 <b>2</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
5 Steam Only (Per Hour)		Signature: <b>JR</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JB** Date: **7-1-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001085

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24705**

PO #	Customer: <b>CES</b>	Date: <b>7-1-09</b>
Tractor	Address:	Time: <b>10:30</b>
Trailer / Container Number <b>105</b>	Dropped By: <b>B Boston</b>	Need By: <b>ASAP</b>

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>Diesel</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature <b>C.P.</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date **7-1-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001086

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24710**

PO # <b>88463</b>	Customer: <b>CES</b>	Date:
Tractor	Address:	Time:
Trailer / Container Number <b>205</b>	Dropped By: <b>Javier</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Waste water</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO2 (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments:  <b>(4) 2 hoses</b>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		_____
19 Hydroblaster (# Hours)		_____
20 Solvent Wash (Green Stripper)		_____
21 Passivation		_____
Hose Cleaning		_____
Pump Cleaning <b>4-2'</b>		_____

Cleaned By: **C.P.** Date: **7-1-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: **Javier** Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001087

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24726**

PO #	Customer: <b>CES</b>	Date: <b>7-2-08</b>
Tractor <b>104</b>	Address:	Time:
Trailer / Container Number	Dropped By: <b>B Boston</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☒ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>gas water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>2</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>2</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>2</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date 7-2-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001088

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24765**

PO #	Customer: <u>CES</u>	Date: <u>7.2.9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>228</u>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>W. Water</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21.5</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>2</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<u>/</u>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<u>/</u>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	<u>/</u>	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date: 7.2.9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001089

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24759**

PO #	Customer: <u>CES</u>	Date: <u>7-29</u>
Tractor <u>280</u>	Address:	Time:
Trailer / Container Number <u>V-65</u>	Dropped By: <u>Paylor</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☒ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☒ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>W. @ sludge</u>		<u>200 gals</u>	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21.7</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>B-H</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)	<u>1.5</u>	
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)	<u>1 hr</u>	
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H Date: 7-29

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001090

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24728**

PO #	Customer: <b>CES</b>	Date: <b>7-4-09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>205</b>	Dropped By: <b>J. Rodriguez</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>waste water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>C.P.</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date: **7-4-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001091

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24729**

PO #	Customer: <b>CES</b>	Date: <b>7-4-09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>256</b>	Dropped By: <b>J. Rodriguez</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>waste water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>20.1</b> #2 <b>1</b> #3 <b>1</b> #4 <b>1</b> #5 <b>1</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>6</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature <b>AR</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **AR** Date **7-4-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001092

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24727

PO #	Customer: <u>CES</u>	Date: <u>7-4-09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>234</u>	Dropped By: <u>Jo Rodriguez</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Waste Water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>20.1</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>AR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal) J		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: AR Date 7-4-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001093

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24746**

PO # <i>Transportation</i>	Customer: <i>CES</i>	Date: <i>7-6-9</i>
Tractor	Address:	Time:
Trailer / Container Number <i>221</i>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Light Ends</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>JL</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JL* Date: *7-6-9*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001094

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24550**

PO #	Customer: <b>CES</b>	Date: <b>7-7-09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>252</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>waste water</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **J.R.** Date **7-7-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001095

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24750**

PO #	Customer: <b>CES</b>	Date: <b>7-7-09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>409</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Base oil</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>10.06</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>1</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>C.P.</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date **7-7-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001096

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24551**

PO #	Customer: <b>CES</b>	Date: <b>7-7-09</b>
Tractor	Address:	Time:
Trailer / Container Number <b>406</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>Base Oil</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>S.T.</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **S.T.** Date: **7-7-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001097

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24851**

PO # <u>211</u>	Customer: <u>CES</u>	Date: <u>7/17/09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>411</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>BAF</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. JR. Date: 7-9-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001098

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24851**

PO # 211	Customer: CES	Date: 7/17/09
Tractor	Address:	Time:
Trailer / Container Number 411	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	PAV			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
2 Quick Rinse		LEL (<10%) #1____ #2____ #3____ #4____ #5____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1____ #2____ #3____ #4____ #5____
4 Hot Water Rinse		Toxic Vapor #1____ #2____ #3____ #4____ #5____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		_____
19 Hydroblaster (# Hours)		_____
20 Solvent Wash (Green Stripper)		_____
21 Passivation		_____
Hose Cleaning		_____
Pump Cleaning		_____

Cleaned By: C.P. J.V. Date: 7-17-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001099

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24850**

PO # <u>88126</u>	Customer: <u>CES</u>	Date: <u>7/7/09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>234</u>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Spent Caustic</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1____ #2____ #3____ #4____ #5____
2 Quick Rinse		LEL (<10%) #1____ #2____ #3____ #4____ #5____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1____ #2____ #3____ #4____ #5____
4 Hot Water Rinse <u>✓</u>		Toxic Vapor #1____ #2____ #3____ #4____ #5____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry <u>✓</u>		
11 Waste Water Surcharge <u>✓</u>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.D. IR Date: 7-9-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001100

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24850**

PO # 57126	Customer: CES	Date: 7/7/09
Tractor	Address:	Time:
Trailer / Container Number 324	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Spot				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.D. ZR Date: 7-9-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001101

# Environmental Services

Environmental Services  
 Tank Cleaning Division  
 11111 Briggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24707

PO # <u>S9501</u>	Customer: <u>Chem Tank</u>	Date: <u>7/1/09</u>
Tractor <u>101</u>	Address:	Time: <u>12:30 PM</u>
Trailer / Container Number <u>2484</u>	Dropped By: <u>Greg Lyons</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Altec</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) # <u>20.0%</u> #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>AR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: AR JR Date 7-1-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Greg Lyons Date \_\_\_\_\_

Signature: [Signature]

EPAHO082001102

**Environmental Services****TANK WASH WORK ORDER**

ainer / Tank Cleaning Division  
34 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

**24737**

PO # <i>Lambert</i>	Customer: <i>Chem Pak</i>	Date: <i>7/6/09</i>
Tractor <i>01</i>	Address:	Time: <i>1210</i>
Trailer / Container Number <i>8475</i>	Dropped By: <i>Greg Lyons</i>	Need By: <i>ASAP</i>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>PEG 1/50</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) <i>10.10</i> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <i>JR</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JR* Date: *7-7-09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: *Greg Lyons* Date: *7/6/09*Signature: *[Signature]*

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001103

# Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24843

PO # <b>10776</b>	Customer: <b>KL CHEMPAK</b>	Date: <b>7-9-09</b>
Tractor <b>254</b>	Address: <b>LESTER PA</b>	Time: <b>0700</b>
Trailer / Container Number <b>3054</b>	Dropped By: <b>BILLY</b>	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>TDA 8.5</b>				
2 <b>TDA 3</b>				
3 <b>TDA 3</b>				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>CP</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **CP A.R.** Date: **7-9-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

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Print Name: **W BARNHARDT** Date: **7-9-09**

Signature: **W.B. Barnhardt**

EPAHO082001104

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24708**

PO #	Customer: <u>Dart Trucking</u>	Date: <u>7/1/09</u>
Tractor <u>593</u>	Address:	Time: <u>13:00</u>
Trailer / Container Number <u>2- T-15</u>	Dropped By: <u>K. K. K.</u>	Need By: <u>13:00</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>N/A</u>	<u>Carbon</u>			
2 <u>N/A</u>	<u>Carbon</u>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date: 7-1-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001105

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24658**

PO #	Customer: <i>Free Bird</i>	Date: <i>6-26-9</i>
Tractor <i>224</i>	Address:	Time:
Trailer / Container Number <i>7138</i>	Dropped By: <i>Peak</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Methyl Ester Pitch,</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>TE</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<i>Caustic wash</i>
9 Caustic Wash & Dry		<i>&amp; Hotwater</i>
10 Caustic Wash, Rinse & Dry		<i>blow dry</i>
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *TE* Date *6-27-9*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001106

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24649**

PO #	Customer: <u>FIREBIRD</u>	Date: <u>062609</u>
Tractor <u>837</u>	Address:	Time:
Trailer / Container Number <u>352</u>	Dropped By: <u>Don Gentry</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>FATTY ACID</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry	<u>FATTY ACID ESTERS</u>	Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CPDate: 6-26-09

Inspected By: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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GES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001107

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24687**

PO #	Customer: <i>Fire Bird</i>	Date: <i>6/30/09</i>
Tractor <i>240</i>	Address:	Time: <i>14:58</i>
Trailer / Container Number <i>323</i>	Dropped By: <i>D. Gonzales</i>	Need By:

CONTAINER TYPE: ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Aspenite</i>	<i>Hydro Chloride</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) <i>01.0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>JE</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<i>/</i>	<i>NI</i>
9 Caustic Wash & Dry	<i>/</i>	<i>Caustic</i>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JE* Date: *6-30-09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001108

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24545**

PO #	Customer: <u>Fire Road</u>	Date: <u>6/30/09</u>
Tractor <u>233</u>	Address:	Time: <u>9:55</u>
Trailer / Container Number <u>239 325</u>	Dropped By: <u>W. H. [Signature]</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>NEW / HAZ WASTE</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0.41</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>C.P.</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. Date: \_\_\_\_\_

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001109

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24691

PO #	Customer: <i>Fire Bid</i>	Date: <i>6/30/11</i>
Tractor <i>226</i>	Address:	Time: <i>15:13</i>
Trailer / Container Number <i>361</i>	Dropped By: <i>Bruce H. [Signature]</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Acetone</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>JE</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<i>Ext. wash for Drive</i>
9 Caustic Wash & Dry		<i>CRASH BOY</i>
10 Caustic Wash, Rinse & Dry		<i>CAUSTIC WASH</i>
11 Waste Water Surcharge		Authorized Additional Services:
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JE* Date: *7-1-9*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001110

# Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24690

PO #	Customer: <i>Fire Bird</i>	Date: <i>7/1/11</i>
Tractor <i>227</i>	Address:	Time: <i>9:12</i>
Trailer / Container Number <i>5603</i>	Dropped By: <i>[Signature]</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☒ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Feed Silo</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>JR</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <i>✓</i>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <i>✓</i>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JR* Date *7-1-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001111

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24721**

PO #	Customer: <i>FIRCHIRD</i>	Date: <i>7-1-09</i>
Tractor <i>233</i>	Address: <i>Humble Texas</i>	Time: <i>19:05</i>
Trailer / Container Number <i>514</i>	Dropped By: <i>ST</i>	Need By: <i>ASAP</i>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>OIL Used</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>100</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>ST</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *ST* Date: *7-2-09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: *Don Miller* Date: *7-1-09*Signature: *Don Miller*

EPAHO082001112

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24715**

PO #	Customer: <u>Firebird</u>	Date: <u>7-1-09</u>
Tractor <u>233</u>	Address: <u>Humble</u>	Time:
Trailer / Container Number <u>511</u>	Dropped By: <u>[Signature]</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ ERAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Oil Used</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>12.6</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. Date 7-2-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Ray Miller Date 7-1-09Signature: [Signature]

EPAHO082001113

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24762**

PO #	Customer: <u>Fire Bird</u>	Date: <u>7/2/09</u>
Tractor <u>2241</u>	Address:	Time: <u>11:41</u>
Trailer / Container Number <u>301</u>	Dropped By: <u>E. Paul</u>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Drake Fluid</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0.4</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <input checked="" type="checkbox"/>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <input checked="" type="checkbox"/>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JK Date: 7-3-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001114

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24829

PO #	Customer: <i>Fire Bud</i>	Date: <i>7/7/09</i>
Tractor <i>236</i>	Address:	Time: <i>13:00</i>
Trailer / Container Number <i>845</i>	Dropped By: <i>[Signature]</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Paint Dist</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>21.0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>TL</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<i>/</i>	<i>clean</i>
9 Caustic Wash & Dry		<i>For</i>
10 Caustic Wash, Rinse & Dry	<i>/</i>	<i>at</i>
11 Waste Water Surcharge		<i>Rent</i>
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	<i>/</i>	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JE* Date: *7-7-9*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001115

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24621**

PO # 63372	Customer: I.T.S.	Date: 06-24-09
Tractor 165	Address:	Time:
Trailer / Container Number 165	Dropped By:	Need By: 11:45

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	155			
2				
3	Methanol			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 2 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 2 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: B H
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		
8 Detergent Wash, Rinse & Dry	/	Comments:
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)	/	
16 Exterior Trailer Wash (with Internal)	/	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H Date 6.24.09

Inspected By: Date

Print Name: P. Vasquez Date

Signature:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001116

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24631**

PO# TRIP# 53371	Customer: ITS	Date: 6.24.09
Tractor 150	Address:	Time: 06.55AM
Trailer / Container Number 754	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	DOT 3 Brake Fluid	NON HAZ		
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JR
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		need passivation
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date: 6.25.09

Inspected By: Date:

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Print Name: Brent Bullis Date: 6.24.09

Signature: Brent Bullis

EPAHO082001117

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24626**

PO #	Customer: <u>ITS</u>	Date: <u>6-24-9</u>
Tractor <u>1418</u>	Address:	Time:
Trailer / Container Number <u>6508</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>glycol</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<u>/</u>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<u>/</u>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)	<u>/</u>	
16 Exterior Trailer Wash (with Internal)	<u>/</u>	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date 6-24-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: BRANK H Date 6-24-9Signature: MSL

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001118

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1070

**TANK WASH WORK ORDER****24628**

PO #	Customer: <u>ITS</u>	Date: <u>6-24-9</u>
Tractor <u>128</u>	Address:	Time:
Trailer / Container Number <u>793</u>	Dropped By:	Need By:

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Petroleum Hydrocarbons			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		
8 Detergent Wash, Rinse & Dry		Comments:
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 6-24-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: JE

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001119

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

## TANK WASH WORK ORDER

24640

PO # <b>53357</b>	Customer: <b>ITS INTEGRATED</b>	Date: <b>6/25/09</b>
Tractor <b>174</b>	Address: <b>CHANNELVIEW, TX</b>	Time:
Trailer / Container Number <b>TS 850</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>MARFOAM</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>20.1</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date **6-25-9**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: **Kenneth J. Huse** Date **6/25/09**

Signature: **Kenneth J. Huse**

EPAHO082001120

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

## TANK WASH WORK ORDER

24639

PO # 53314	Customer: <b>ITS</b>	Date: 6-25-09
Tractor 186	Address:	Time: 1:00 PM
Trailer / Container Number 2044	Dropped By: <b>DAVID GARZA</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	DOG			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>20</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry	✓	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	✓	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date: 6-25-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: DAVID GARZA Date: 6-25-09

Signature: David Garza

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001121

**CES Environmental Services**

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24630**

PO # <b>53369</b>	Customer: <b>ITS</b>	Date: <b>6/25/09</b>
Tractor <b>156</b>	Address:	Time: <b>4:30</b>
Trailer / Container Number <b>TS942</b>	Dropped By: <b>KEVIN Siggers</b>	Need By: <b>4 AM</b>

**CONTAINER TYPE:** ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>XYLENE</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<b>changed all gaskets and sealed</b>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Cleaned By: **JE** Date: **6-24-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: **KEVIN Siggers** Date: **6/25/09**Signature: **Kevin Siggers**

EPAHO082001122

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24644**

PO # <b>53377</b>	Customer: <b>ITS</b>	Date: <b>6-25-09</b>
Tractor <b>7003</b>	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Triethylene Glycol</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>7.6</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>BH</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **BH** Date: **6-25-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: **Charles R. J.** Date: \_\_\_\_\_Signature: **CHAS R J**

EPAHO082001123

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER**

24646

PO # 53370	Customer: ITS	Date: 6-25-09
Tractor 177	Address:	Time: 19:35
Trailer / Container Number LT707	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Pro Check GP-77			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JL
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JL Date: 6-25-9

Inspected By: Date:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: Tommy F. Franks Jr. Date: 6-25-09

Signature: Tommy F. Franks Jr.

EPAHO082001124

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24643**

PO #	Customer: <u>ITS</u>	Date: <u>6-25-9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>893</u>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Lube oil</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>20.1</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>6</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>SJ</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: SJ Date: 6-25-9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001125

# Environmental Services

## TANK WASH WORK ORDER

Trailer / Tank Cleaning Division  
 444 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1670

24635

PO # <b>53373</b>	Customer: <b>ITS</b>	Date: <b>6/25/09</b>
Tractor <b>160</b>	Address:	Time: <b>5:45am</b>
Trailer / Container Number <b>7002</b>	Dropped By: <b>Gomez</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	PP-9.5			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>Real</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>6</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>6</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>[Signature]</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date: **6-25-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: **James Gomez** Date: **6-25-09**

Signature: **[Signature]**

EPAHO082001126

# Environmental Services

Cleaning Division

d. • Houston, TX 77021

• 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24645

U # <b>53333</b>	Customer: <b>ITS</b>	Date: <b>6/25/09</b>
Tractor <b>136</b>	Address:	Time: <b>1931</b>
Trailer / Container Number <b>6507</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	FR 66 Polymer			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>SR</u>
6 Steam & Dry		Stripper Usage: <u>  </u>
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. IR Date 6-25-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date 6/25/09

Signature: [Signature]

EPAHO082001127

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24605**

PO #	Customer: <b>ITS</b>	Date: <b>6/26/09</b>
Tractor <b>171</b>	Address:	Time: <b>8:30 AM.</b>
Trailer / Container Number <b>LT-942</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>Hydro Acid</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>GP</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **C.P.** Date: **6-26-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001128

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1670

## TANK WASH WORK ORDER

24662

PO # <b>53388</b>	Customer: <b>I.T.S</b>	Date: <b>06-26-09</b>
Tractor <b>165</b>	Address:	Time:
Trailer / Container Number <b>965</b>	Dropped By:	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	DCI-30			
2	DFS-135			
3	PPD-2151			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>B-H</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H Date: 6-2

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: A. Vasquez Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001129

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24661**

PO # <b>53413</b>	Customer: <b>ITS</b>	Date: <b>6/26/09</b>
Tractor <b>143</b>	Address:	Time: <b>20:30</b>
Trailer / Container Number <b>982</b>	Dropped By:	Need By: <b>0600</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>210</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>TL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: TL Date: 6.27.9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Victor Brown Date: 6/26/09Signature: /Brown

EPAHO082001130

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24660**

PO # <b>53429</b>	Customer: <b>ITS</b>	Date: <b>06.26.09</b>
Tractor <b>1008</b>	Address:	Time: <b>TODAY</b>
Trailer / Container Number <b>7002</b>	Dropped By: <b>JESUS CREA</b>	Need By: <b>TODAY</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	DEA 85%			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JL Date: 6.26.09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: JESUS CREA Date: 6.26.09Signature: [Signature]

EPAHO082001131

# CES Environmental Services

Contact: Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1670

## TANK WASH WORK ORDER

24653

PO # 53375	Customer: ITS	Date: 6-26-9
Tractor 192	Address:	Time:
Trailer / Container Number 761	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	R/H Ignosulfonate			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 12 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JE
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 6-26-9

Inspected By: Date

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Billy McEach Date 6-26-09

Signature: [Signature]

EPAHO082001132

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24656**

PO # 53426	Customer: I TS	Date: 6/26/09
Tractor 175	Address:	Time: 15:52
Trailer / Container Number 187	Dropped By: Anthony Taylor	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Petroleum Base Oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 20 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JL
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	/	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JL Date 6-26-09

Inspected By: Date

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Date

Signature:

EPAHO082001133

# Environmental Services

Tank Cleaning Division

Angels Rd. • Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

## TANK WASH WORK ORDER

24606

PO # 53446	Customer: ITS	Date: 6/26/08
Tractor 125	Address:	Time:
Trailer / Container Number 6301	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	6/26/08			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 21.5 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	/	
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning	/ 40"	
Pump Cleaning	/	

Cleaned By: \_\_\_\_\_ Date 6-26-08

Inspected By: J.E. \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001134

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24654**

PO # <b>53419</b>	Customer: <b>ITS</b>	Date: <b>6-26-09</b>
Tractor <b>107</b>	Address:	Time:
Trailer / Container Number <b>6508</b>	Dropped By:	Need By: <b>ASAP</b>

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Ethanolamine</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>TL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **TL** Date: **6-26-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: **Charles** Date: **6-26-09**Signature: **[Signature]**

EPAHO082001135

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24652**

PO # 53415	Customer: ITS	Date: 6/26/09
Tractor	Address:	Time:
Trailer / Container Number 6701	Dropped By: Sergio Dominguez	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	PEG-300			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JE
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 6-26-9

Inspected By: Date

Print Name: Date

Signature: 

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001136

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24664**

PO # <b>53449</b>	Customer: <b>ITS</b>	Date: <b>6-27-09</b>
Tractor <b>173</b>	Address:	Time:
Trailer / Container Number <b>2042</b>	Dropped By: <b>William</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>AL-304</b>			
2	<b>Not DOT Regulated</b>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>20.1</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>B-H</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **B-H** Date: **6-28-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001137

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24608**

PO # <b>53421</b>	Customer: <b>ITS</b>	Date: <b>6-28-09</b>
Tractor <b>186</b>	Address:	Time: <b>12:17</b>
Trailer / Container Number <b>1130</b>	Dropped By: <b>DAVID GARZA</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☒ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	PMAC			
2	PMAC			
3	DDA			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>21.3</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>2</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>SL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry	/	
10 Caustic Wash, Rinse & Dry	/	
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)	/	
16 Exterior Trailer Wash (with Internal)	/	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JL** Date: **6-28-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: **DAVID GARZA** Date: **6-28-09**Signature: **David Garza**

EPAHO082001138

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1670

**TANK WASH WORK ORDER****24666**

PO # <b>53451</b>	Customer: <b>ITS</b>	Date: <b>6/28/09</b>
Tractor <b>143</b>	Address:	Time: <b>1200</b>
Trailer / Container Number <b>693</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>201</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date **6/28/09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: **VICTOR BROWN** Date **6/28/09**Signature: **[Signature]**

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001139

**24609**

PO # <b>53450</b>	Customer: <b>ITS</b>	Date: <b>6-28-09</b>
Tractor <b>1381</b>	Address:	Time:
Trailer / Container Number <b>942</b>	Dropped By: <b>STEVE DOMINGUEZ</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>OLOA - 304</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>201</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date **6-28-9**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date **6-28-09**

Signature: **[Signature]**

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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**Environmental Services**

Tainer / Tank Cleaning Division

904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24538**

PO # <u>53414</u>	Customer: <u>ITS</u>	Date: <u>6-29-09</u>
Tractor <u>184</u>	Address:	Time: <u>11:00 pm</u>
Trailer / Container Number <u>3396</u>	Dropped By: <u>DAVID GARZA</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<del>BRAKE</del>			
2	<u>BRAKE Fluid 3</u>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<input checked="" type="checkbox"/>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<input checked="" type="checkbox"/>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date 6-30-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: DAVID GARZA Date 6-29-09Signature: [Signature]

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001141

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24679**

PO # <b>53444</b>	Customer: <b>ITS</b>	Date: <b>6-29-09</b>
Tractor <b>175</b>	Address: <b>10213 BEAC GARDEN CHANNELVIEW TX</b>	Time: <b>920 AM</b>
Trailer / Container Number <b>6701</b>	Dropped By: <b>ANTHONY TAYLOR</b>	Need By: <b>ASAC</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	MEA 99%			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>DL</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>TL</u>
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: BH Date 6-29-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001142

# **ES Environmental Services**

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021\*  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## **TANK WASH WORK ORDER**

24670

PO #	Customer: <u>ITL</u>	Date: <u>6/29/09</u>
Tractor <u>1119</u>	Address:	Time: <u>4:19</u>
Trailer / Container Number <u>6503</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Detergent</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JK</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JK Date 6-29-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001143

**CES Environmental Services**

Container Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24674

PO # 53411	Customer: ITS	Date: 6/29/09
Tractor 119	Address:	Time: 14:23
Trailer / Container Number 6901	Dropped By: Phillip Clark	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 GAS additive				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 21.2 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 2 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 2 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JL
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)	/	
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JL Date: 6/29/09

Inspected By: Date:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Date:

Signature:

EPAHO082001144

# Environmental Services

# TANK WASH WORK ORDER

Trainer / Tank Cleaning Division  
 44 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

24548

PO # <b>533915</b>	Customer: <b>ITS</b>	Date: <b>6/30/9</b>
Tractor <b>155</b>	Address:	Time: <b>1145 AM</b>
Trailer / Container Number <b>3392</b>	Dropped By: <b>Hector Salinas</b>	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - <u>Non-Haz</u>	Drum / Rolloff
1	<b>Waste Water</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <b>1</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>1</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>1</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>1</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JR</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **J.R.** Date: **6-30-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: **Hector R Salinas** Date: **6/30/9**  
 Signature: **HR Salinas**

EPAHO082001145

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24698**

PO # <u>53431</u>	Customer: <u>ITS</u>	Date: <u>6-30-9</u>
Tractor	Address:	Time: <u>3:10 PM</u>
Trailer / Container Number <u>20414</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>① CA-222 / glycol</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		Authorized Additional Services:
Pump Cleaning		

Cleaned By: JL Date 6-30-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001146

# S Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24700

PO # 53470	Customer: ITS	Date: 6-30-9
Tractor 1008	Address:	Time:
Trailer / Container Number 707	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Wga 15L			75	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: ST
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: A.R. ST. Date 7-1-09

Inspected By: Date

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Jesus Cruz Date 6-30-09

Signature: [Signature]

EPAHO082001147

# CES Environmental Services

Container / Tank Cleaning Division

4984 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24688

PO # 53465	Customer: I TS	Date: 6/30/11
Tractor 135	Address:	Time: 15:03
Trailer / Container Number 7002	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 20.1 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JL
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: BH - JL Date: 6-30-11

Inspected By: Date:

Print Name: Date:

Signature:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001148

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24699**

PO #	Customer: <u>ITS</u>	Date: <u>6/30/09</u>
Tractor <u>1418</u>	Address:	Time: <u>1815</u>
Trailer / Container Number <u>2043</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>TRIETHYLAOLANOLINE</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>26.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>S.A.</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<u>/</u>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry	<u>/</u>	
11 Waste Water Surcharge	<u>/</u>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H Date: 6-30-9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: [Signature]

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EPAHO082001149

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24693**

PO # 534134	Customer: ITS	Date: 6/30/09
Tractor 173	Address:	Time: 15:25
Trailer / Container Number 6201	Dropped By: William	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	ethylene Glycol			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JE
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 6-30-9

Inspected By: Date

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Print Name: Date

Signature:

EPAHO082001150

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24697

PO # <u>53412</u>	Customer: <u>ITS</u>	Date: <u>6-30-9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>6508</u>	Dropped By: <u>Anthony Taylor</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>KOA</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>210</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date 6-30-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001151

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Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24692**

PO # 53139	Customer: I TS	Date: 6/30/09
Tractor 156	Address:	Time: 15:15
Trailer / Container Number 17-942	Dropped By: <i>[Signature]</i>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☒ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Waste oil			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: B-H
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H Date: 6-30-9

Inspected By: Date:

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Print Name: Date:

Signature:

EPAHO082001152

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24540

PO # <b>53412</b>	Customer: <b>ITS</b>	Date: <b>6/30/9</b>
Tractor <b>155</b>	Address:	Time: <b>0600</b>
Trailer / Container Number <b>8880</b>	Dropped By: <b>Hector R. Salinas</b>	Need By: <b>5:00 PM</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>Raffex 90</b>		<b>UN 3257</b>		
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>2</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>2</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>2</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>HR</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal) ✓		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning ✓	<b>1</b>	
Pump Cleaning		

Cleaned By: **JR** Date **6-30-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

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Print Name: **Hector P. Salinas** Date **6/30/9**

Signature: **HR Salinas**

EPAHO082001153

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24696

PO #	Customer: <u>ITS</u>	Date: <u>6-30-9</u>
Tractor <u>148</u>	Address:	Time:
Trailer / Container Number <u>755</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Acetate</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>20.1</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)	<u>1 hr 1 men</u>	
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 6-30-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

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Print Name: SPRATLEY Date 6/30/09

Signature: [Signature]

EPAHO082001154

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24714**

PO # <b>53484</b>	Customer: <b>ITS</b>	Date: <b>7-1-09</b>
Tractor <b>132</b>	Address:	Time:
Trailer / Container Number <b>693</b>	Dropped By: <b>Rwilliams</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Lube OIL</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>ST</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)	/	
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **ST** Date **7-1-9**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001155

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24717**

PO # 53462	Customer: ITS	Date: 7/11/09
Tractor 154	Address:	Time: 4:00 PM
Trailer / Container Number 522	Dropped By: D. Hoffman	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 NP-150			✓	
2 NP-150			✓	
3 NP-95			✓	
4	32' Hoses			
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 20.1 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JE
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	✓	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning	✓	
Pump Cleaning		

Cleaned By: BH Date 7-1-9

Inspected By: Date

Print Name: Dan Hoffman Date 7/11/09

Signature: [Signature]

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EPAHO082001156

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24716**

PO # <b>534164</b>	Customer: <b>ITS</b>	Date: <b>7-1-04</b>
Tractor <b>1381</b>	Address:	Time:
Trailer / Container Number <b>987</b>	Dropped By: <b>Stefano Dominguez</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Acetic Acid			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>2</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>2</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 7-1-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001157

# Environmental Services

# TANK WASH WORK ORDER

Container / Tank Cleaning Division  
 4904 Griggs Rd. • Houston, TX 77021 •  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

24764

PO #	Customer: <u>ITS</u>	Date: <u>7-2-09</u>
Tractor <u>177</u>	Address: <u>Chamadeview Tr</u>	Time: <u>6:30P</u>
Trailer / Container Number <u>LT 793</u>	Dropped By: <u>Jim Hagar</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Aluminum Chlorohydrate Non Haz</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. Date 7-3-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Jim Hagar Date 7-2-09  
 Signature: [Signature]

EPAHO082001158

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24751**

PO #	Customer: <u>ITS</u>	Date: <u>7/2/09</u>
Tractor <u>1118</u>	Address:	Time: <u>1030</u>
Trailer / Container Number <u>LT-982</u>	Dropped By: <u>[Signature]</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Perme Acid</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-14 Date: 7-2-9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001159

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 \*

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24760**

PO # 534155	Customer: ITS	Date: 7/2/07
Tractor 175	Address:	Time: 14:41
Trailer / Container Number 6201	Dropped By: Anthony Taylor	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☒ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Acid			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <u>2</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 <u>  </u> #3 <u>  </u> #4 <u>  </u> #5 <u>  </u>
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date: 7.2.9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001160

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021•

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24758

PO # 53487	Customer: ITS	Date: 7/2/01
Tractor 173	Address:	Time: 11:01
Trailer / Container Number 3396	Dropped By: William	Need By: PSP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Diesel			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 7-2-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001161

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24756**

PO # <b>53485</b>	Customer: <b>T.T.S</b>	Date: <b>7-2-9</b>
Tractor <b>156</b>	Address:	Time: <b>CSAD</b>
Trailer / Container Number <b>5880</b>	Dropped By: <b>Billy</b>	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>NON HAZ DETERGENT</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>210</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<b>/</b>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry	<b>/</b>	
11 Waste Water Surcharge	<b>/</b>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date: **7-2-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: **Billy Mandy** Date: **7-2-9**Signature: **[Signature]**

EPAHO082001162

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24724**

PO # 53495	Customer: ITS	Date: 7/2/09
Tractor 143	Address:	Time: 9:50 am
Trailer / Container Number 6001	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 Gas additive				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JE
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 7-2-9

Inspected By: Date

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: Victor Date 7/2/09

Signature: J. Brown

EPAHO082001163

# ES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021 •  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24753

PO # 53510	Customer: ITS	Date: 7-2-09
Tractor 132	Address:	Time: 1130 AM
Trailer / Container Number 942	Dropped By: RCS	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Hydroxide Solution			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>AR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: AR Date: 7-2-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001164

# ES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24755

PO #	Customer: <u>ITS</u>	Date: <u>7-2-09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>761</u>	Dropped By: <u>Phillip Clark</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2	<u>ISOPARAFINIC SOLVENT</u>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <u>X</u>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours) <u>X</u>		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: AR ST Date 7-2-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: Phillip Clark Date \_\_\_\_\_

Signature: Phillip Clark

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001165

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24763**

PO #	Customer: <b>FTS</b>	Date: <b>7-2-09</b>
Tractor <b>151</b>	Address:	Time: <b>5:50</b>
Trailer / Container Number <b>LT922</b>	Dropped By: <b>Freddy G.</b>	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>BRAKE FLUID</b>			
2	<b>11</b>			
3	<b>11</b>			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>1</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>1</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 <b>1</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>1</b> #3 <b>2</b> #4 <b>2</b> #5 <b>2</b>
5 Steam Only (Per Hour)		Signature: <b>CP</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **CP** Date **7-3-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: **Freddy G.** Date **7-2-09**Signature: **Freddy G.**

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001166

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24723**

PO #	Customer: <u>JTS</u>	Date: <u>7-2-09</u>
Tractor <u>151</u>	Address:	Time:
Trailer / Container Number	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Pump</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning <u>3-2" ✓</u>		
Pump Cleaning ✓		

Cleaned By: \_\_\_\_\_ Date: \_\_\_\_\_

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: Freddy G. Date: 7-2-09  
Signature: Freddy G.

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001167

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24770

PO # <b>53410</b>	Customer: <b>ITS</b>	Date: <b>7/3/09</b>
Tractor: <b>136</b>	Address:	Time: <b>1230pm</b>
Trailer / Container Number <b>7003</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>DCI-11</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>2</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JE</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JE** Date: **7-3-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: **SAM YSQUIERDA** Date: **7/3/09**Signature: **Sam Ysquierda**

EPAHO082001168

# **CES Environmental Services**

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021 •  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## **TANK WASH WORK ORDER**

**24767**

PO #	Customer: <b>ITS</b>	Date: <b>7/03/09</b>
Tractor <b>149</b>	Address:	Time: <b>1:14</b>
Trailer / Container Number <b>1-9165</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>cleaning compound</i>				
2 <i>glycolic acid</i>				
3 <i>glycolic acid</i>				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>ST</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **ST** Date **7-3-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantee with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001169

# Environmental Services

# TANK WASH WORK ORDER

Trainer / Tank Cleaning Division  
 404 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

24769

PO # 53488	Customer: ITS	Date: 7/3/09
Tractor 160	Address:	Time: 9:34
Trailer / Container Number 760-6701	Dropped By: Gomez	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Detergent			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date 7-3-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: Gomez, Gomez Date 7-3-09

Signature: [Signature]

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24740**

PO # <b>53486</b>	Customer: <b>ITS</b>	Date: <b>7-5-9</b>
Tractor	Address:	Time:
Trailer / Container Number <b>2042</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <b>Petroleum oil</b>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0.0</b> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <b>JL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<b>/</b>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry	<b>/</b>	
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JL** Date **7-6-9**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001171

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24730

PO # 53437	Customer: ITS	Date: 7-5-09
Tractor 192	Address:	Time: 19:45
Trailer / Container Number LT1130	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Comp. 1 OLI 9101			
2	Comp. 2 OLI 9101			
3	Comp. 3 DDA 3548			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 20.1 #2 24 #3 27 #4 28 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 0 #3 0 #4 0 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 0 #3 0 #4 0 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 0 #3 0 #4 0 #5
5 Steam Only (Per Hour)		Signature: JR
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	✓	5 hoses in hose
9 Caustic Wash & Dry		Tube Tube washed and
10 Caustic Wash, Rinse & Dry		PUT BACK in Tube
11 Waste Water Surcharge	✓	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning 5 ✓	10-15 minutes	
Pump Cleaning		

Cleaned By: JR Date: 7/6/09

Inspected By: Date:

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Print Name: Tommy Franksta Date: 7-5-09

Signature: Tommy Franksta

EPAHO082001172

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24744**

PO #	Customer: <b>ITS</b>	Date: <b>7-6-09</b>
Tractor: <b>151</b>	Address:	Time: <b>7:45</b>
Trailer / Container Number: <b>3392</b>	Dropped By: <b>Freddy S.</b>	Need By: <b>ASAP Freddy S.</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Acetic Acid</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <b>0.1</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>JL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JL JE** Date **7-6-9**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

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Print Name: **Freddy S.** Date **7-6-09**Signature: **Freddy S.**

EPAHO082001173

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24741

PO # 53522	Customer: ITS	Date: 7/06/09
Tractor 80	Address:	Time: 17:19
Trailer / Container Number LT-707	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 W/H n/a				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #0.1 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JL
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	/	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST-JL Date 7-6-9

Inspected By: Date

Print Name: Date 7/6/09

Signature: [Signature]

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001174

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24738**

PO # <u>53503</u>	Customer: <u>ITS</u>	Date: <u>7-6-09</u>
Tractor <u>1301</u>	Address:	Time:
Trailer / Container Number <u>6508</u>	Dropped By: <u>Stefano Dominguez</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>cutlet stock</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <u>21.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>SL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<u>/</u>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<u>/</u>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	<u>/</u>	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST-JL Date 7-6-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: Stefano D Date 7/6/09Signature: [Signature]

EPAHO082001175

# **CES Environmental Services**

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## **TANK WASH WORK ORDER**

**24734**

PO #	Customer: <u>ITS</u>	Date: <u>7/6/19</u>
Tractor: <u>128</u>	Address:	Time: <u>12:00</u>
Trailer / Container Number: <u>6507</u>	Dropped By: <u>[Signature]</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Blue Diesel</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. Date 7-6-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

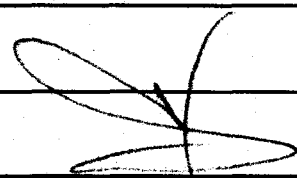
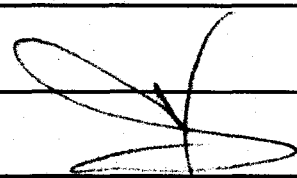
Signature: \_\_\_\_\_

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EPAHO082001176

24739

PO #	Customer: <u>ITS</u>	Date: <u>7/6</u>
Tractor <u>171</u>	Address: 	Time:
Trailer / Container Number <u>755</u>	Dropped By: 	Need By: <u>Asap</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Butyl Acetate</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>2</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>2</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <input checked="" type="checkbox"/>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <input checked="" type="checkbox"/>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date 7-7-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24776

PO # <b>53524</b>	Customer: <b>ITS</b>	Date: <b>7/7/09</b>
Tractor <b>136</b>	Address:	Time: <b>14:11</b>
Trailer / Container Number <b>1266</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	OPTISPERSE CPS501			
2	Empty			
3	OPTI Guard MCP600			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>GP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	✓	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	✓	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning	✓	
Pump Cleaning	2	

Cleaned By: C.P. ST Date 7-9-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

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Print Name: Sam Kooie Date 7/7/09  
Signature: Sam Kooie

EPAHO082001178

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24748**

PO #	Customer: <u>ITS</u>	Date: <u>7-7-09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>151</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Pump</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
2 Quick Rinse		LEL (<10%) #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>1</u> #2 <u>1</u> #3 <u>1</u> #4 <u>1</u> #5 <u>1</u>
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning <u>3-2"</u> ✓		
Pump Cleaning		

Cleaned By: J.R.Date 7-7-09Inspected By: [Signature]Date 7-7-09

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001179

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24832**

PO # <b>53527</b>	Customer: <b>IS</b>	Date: <b>7-7-09</b>
Tractor <b>138</b>	Address:	Time: <b>130 pm</b>
Trailer / Container Number <b>850</b>	Dropped By: <b>Rob</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☒ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>AntiFreeze</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>2</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>2</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>2</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>ST</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	✓	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	✓	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	✓	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **ST** Date: **7-8-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001180

# Environmental Services

Cleaning Division

Houston, TX 77021

676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24838

Tractor 138	Customer: ITS	Date: 7-8-09
Trailer / Container Number 113D	Address:	Time: 1 pm
	Dropped By: RKB	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Amines / Kerosene			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 0 #2 0 #3 0 #4 0 #5 0
2 Quick Rinse		LEL (<10%) #1 0 #2 0 #3 0 #4 0 #5 0
3 Cold Water Rinse		CO2 (<35 ppm) #1 0 #2 0 #3 0 #4 0 #5 0
4 Hot Water Rinse		Toxic Vapor #1 0 #2 0 #3 0 #4 0 #5 0
5 Steam Only (Per Hour)		Signature: AR
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		
8 Detergent Wash, Rinse & Dry		Comments:
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. AR Date 7-9-09

Inspected By: Date

Print Name: RKB Date

Signature:

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EPAHO082001181

PO #	Customer: <i>Kishor</i>	Date: <i>7/6/09</i>
Tractor <i>609</i>	Address:	Time: <i>11:21</i>
Trailer / Container Number <i>6701</i>	Dropped By: <i>Kishor</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Lib</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>[Signature]</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<i>Waiting HOT</i>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning <i>1-3</i>		
Pump Cleaning		

Cleaned By: *A.R.* Date *7-6-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24745

PO #	Customer: <u>Kiisher</u>	Date: <u>7-6-9</u>
Tractor <u>2263</u>	Address:	Time: <u>9:05 PM</u>
Trailer / Container Number <u>7023</u>	Dropped By: <u>Michael White</u>	Need By:

CONTAINER TYPE: ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Liquid</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:  <u>2" Hoses 2 Fittings</u>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning	<u>2" - 2 Fittings</u>	
Pump Cleaning		

Cleaned By: JL Date: 7-6-9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001183

# Environmental Services

Tanker / Tank Cleaning Division  
 404 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24747

PO #	Customer: <u>KIRSCHER</u>	Date: <u>7-7-09</u>
Tractor <u>547</u>	Address:	Time: <u>5:30 AM</u>
Trailer / Container Number <u>6702</u>	Dropped By:	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>SODIUM BISULFITE</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>CR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CR Date 7-7-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Joe Miller Date 7-7-09

Signature: [Signature]

EPAHO082001184

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24752**

PO #	Customer: <u>Kmco</u>	Date: <u>7-02-09</u>
Tractor <u>2000</u>	Address:	Time: <u>11:00</u>
Trailer / Container Number	Dropped By: <u>Bobby Rod.</u>	Need By: <u>ASAP.</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / (Roll off)
1	<u>NON HAZ Filter cake</u>		<u>350 gals</u>	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)	<u>341</u>	
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST-JL Date 7-2-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001185

**Environmental Services**

Tractor / Tank Cleaning Division  
4 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24648**

PO #	Customer: <b>PACES</b>	Date:
Tractor <b>2003</b>	Address:	Time:
Trailer / Container Number <b>260</b>	Dropped By: <b>Susan Fries</b>	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Sodium Hydroxide Solution</b>			
2	<b>20% caustic</b>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>20.0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>1</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **ST** Date: **6-26-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: **Susan Fries** Date: **6/26/09**

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001186

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24671**

PO #	Customer: <i>RAN 4 Row-1</i>	Date: <i>6/29/09</i>
Tractor <i>750</i>	Address:	Time: <i>16:15</i>
Trailer / Container Number <i>274400</i>	Dropped By: <i>AT CORB</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☒ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>N/H 5005</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<i>/</i>	<i>I was in and out</i>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<i>/</i>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)	<i>/</i>	
17 Exterior Acid-Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *C.P.* Date *6-30-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001187

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24542**

PO #	Customer: <b>Rain For Rent</b>	Date: <b>6-30-09</b>
Tractor <b>760</b>	Address: <b>2712 Independence Pkwy, La Porte, Tx</b>	Time: <b>9:30</b>
Trailer / Container Number <b>254321</b>	Dropped By: <b>Cuauhtemoc Valdez</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Hydro test water pipeline			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date: 7-1-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001188

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24547

PO #	Customer: <i>Rain for Rent</i>	Date: <i>6-30-09</i>
Tractor <i>840</i>	Address:	Time:
Trailer / Container Number <i>260729</i>	Dropped By: <i>PAT MARTINEZ</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Hydrotest water</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
5 Steam Only (Per Hour)		Signature: <i>JR</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JR* Date *7-1-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001189

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24683**

PO #	Customer: <u>Rain for Rent</u>	Date: <u>6-30-09</u>
Tractor <u>760</u>	Address: <u>2712 Independence Pkwy., La Porte, TX</u>	Time: <u>2:04</u>
Trailer / Container Number <u>239232</u>	Dropped By: <u>Cuautemoc Valdez</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Hydro test water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0.07</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date 7-1-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001190

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24546**

PO #	Customer: <u>Rain for Rent</u>	Date: <u>6-30-09</u>
Tractor <u>760</u>	Address: <u>2712 Independence pkwy., La Porte, TX</u>	Time: <u>11:37</u>
Trailer / Container Number <u>055758</u>	Dropped By: <u>Cuauhtemoc Valdez</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Hydro test water</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <input checked="" type="checkbox"/>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <input checked="" type="checkbox"/>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date 7-1-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001191

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24686**

PO #	Customer: <i>Rain for Rent</i>	Date: <i>6-30-09</i>
Tractor <i>840</i>	Address:	Time:
Trailer / Container Number <i>254298</i>	Dropped By: <i>PAT MARTINEZ</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Hydrotect water</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>10</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>SL</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<i>/</i>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry	<i>/</i>	
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *ST* Date *6-30-9*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001192

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24543**

PO #	Customer: <i>Rain for Rent</i>	Date: <i>6-30-09</i>
Tractor <i>840</i>	Address:	Time:
Trailer / Container Number <i>255395</i>	Dropped By: <i>PAT Martinez</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☒ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>HydroTest water pipeline</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
5 Steam Only (Per Hour)		Signature: <i>JX</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	<input checked="" type="checkbox"/>	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	<input checked="" type="checkbox"/>	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JP* Date *7-1-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001193

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24711

PO #	Customer: <u>Sledge</u>	Date: <u>07/01/09</u>
Tractor	Address:	Time:
Trailer / Container Number	Dropped By: <u>Handwritten</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Sledge Pump</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date 7-1-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

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**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24706**

PO #	Customer: <u>TFR Light House</u>	Date: <u>7/11/07</u>
Tractor <u>3418</u>	Address:	Time: <u>12:10 11:00</u>
Trailer / Container Number <u>21</u>	Dropped By:	Need By: <u>ASAP</u>

CONTAINER TYPE: ☒ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Del. Lube</u>				
2 <u>Del. Lube</u>				
3 <u>Del. Lube</u>				
4 <u>Del. Lube</u>				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>20.1</u> #2 <u>20.1</u> #3 <u>20.1</u> #4 <u>20.6</u> #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: STDate: 7/11/07

Inspected By: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001195

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24604**

PO #	Customer: <u>Team Trans.</u>	Date: <u>06/25/09</u>
Tractor <u>64</u>	Address:	Time:
Trailer / Container Number <u>522</u>	Dropped By: <u>William Hawk</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Trans. Fuel</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) # <u>0.9</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry	✓	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	✓	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		Authorized Additional Services: _____
Pump Cleaning		_____

Cleaned By: S.T. Date 6-25-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24676**

PO #	Customer: <i>Team</i>	Date: <i>6/29/09</i>
Tractor <i>55</i>	Address:	Time: <i>16:30</i>
Trailer / Container Number <i>7417</i>	Dropped By: <i>Donald Hudson II</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>Choline Chloride</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO2 (<35 ppm) #1 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>BH</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		
8 Detergent Wash, Rinse & Dry		Comments:
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning <i>1 hr</i>		
Pump Cleaning		

Cleaned By: *BH* Date: *6/29/09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

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Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001197

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24681

PO #	Customer: <i>Tech</i>	Date: <i>6/30/19</i>
Tractor	Address:	Time: <i>12:57</i>
Trailer / Container Number	Dropped By: <i>[Signature]</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Removal</i>	<i>Green</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>JE</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<i>Check</i>
9 Caustic Wash & Dry		<i>Front w/o cap</i>
10 Caustic Wash, Rinse & Dry		<i>Don't order fuel</i>
11 Waste Water Surcharge		<i>waiting</i>
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning <i>(1) - 3"</i>		
Pump Cleaning		

Cleaned By: *JE* Date: *6-30-19*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001198

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24650**

PO #	Customer: <u>THE HURT CO</u>	Date: <u>6/26/09</u>
Tractor <u>206</u>	Address: <u>3310 ALICEST</u>	Time: <u>11:40am</u>
Trailer / Container Number <u>109</u>	Dropped By: <u>PETER SEAN JR</u>	Need By: <u>Monday</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Oil</u>			
2				
3				
4				
5	<u>Oil</u>			

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) <u>20.1</u> #2___ #3___ #4___ #5___
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2___ #3___ #4___ #5___
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>2</u> #2___ #3___ #4___ #5___
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2___ #3___ #4___ #5___
5 Steam Only (Per Hour)		Signature: <u>TL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>WASH ONLY Comp #</u>
9 Caustic Wash & Dry		<u>1, 5</u>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: TL Date 6-28-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Peter Sean Jr Date 6/26/09Signature: [Signature]

EPAHO082001199

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24673

PO #	Customer: <u>Hurt</u>	Date: <u>6/29/09</u>
Tractor <u>866</u>	Address:	Time:
Trailer / Container Number <u>109</u>	Dropped By: <u>Peter Sedwa</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Antifreeze</u>				
2				
3 <u>Diesel</u>				
4				
5 <u>Antifreeze</u>				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>21.0</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>2</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>B-H</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H JL Date: 6.29.9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Peter Sedwa Date: 6/29/09

Signature: Peter Sedwa

EPAHO082001200

# CES Environmental Services

Container Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24549

PO #	Customer: <u>THE HOKICO</u>	Date: <u>7/7/09</u>
Tractor <u>206</u>	Address: <u>3300 HILCEST</u>	Time: <u>12:45pm</u>
Trailer / Container Number <u>109</u>	Dropped By: <u>PETER SERRA TE</u>	Need By: <u>TODAY</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Oil</u>			
2				
3				
4				
5	<u>Oil</u>			

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>TE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>WASH Comp #</u>
9 Caustic Wash & Dry		<u>1,5 ONLY</u>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date 7-8-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: PETER SERRA TE Date 7/7/09

Signature: TE

EPAHO082001201

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24854

PO #	Customer: <i>The Hart Co</i>	Date: <i>7-9-09</i>
Tractor <del>109</del>	Address: <i>3310 Alice Houston TX 77021</i>	Time: <i>1:45</i>
Trailer / Container Number <i>109</i>	Dropped By: <i>Bennie Dorsey</i>	Need By: <i>next day</i>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Antifreeze</i>				
2				
3				
4				
5 <i>Antifreeze</i>				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>21.0</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>SE</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <i>One and five</i>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *SE* Date *7-9-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001202

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

# TANK WASH WORK ORDER

24618

PO #	Customer: <u>Tidepoint</u>	Date: <u>6/24/09</u>
Tractor <u>895</u>	Address:	Time: <u>10:27</u>
Trailer / Container Number <u>5006</u>	Dropped By: <u>Mark Morgan</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Ex-mnw Silver</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <u>10</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>ST</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: ST Date: 6-24-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001203

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24641**

PO #	Customer: <i>Tideport</i>	Date: <i>6-25-09</i>
Tractor <i>889</i>	Address: <i>16031 DeZavala Channelview, TX</i>	Time: <i>1:45 pm</i>
Trailer / Container Number <i>3009</i>	Dropped By: <i>Seth Newton</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>2</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 <i>0</i> #3 <i>0</i> #4 <i>0</i> #5 <i>0</i>
5 Steam Only (Per Hour)		Signature: <i>B-H</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *B-H* Date: *6-25-9*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: *Seth Newton* Date: *6-25-09*Signature: *[Signature]*

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001204

**Environmental Services****TANK WASH WORK ORDER**

Environmental Services  
Cleaning Division  
4 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

**24636**

PO #	Customer: <u>Tidepool</u>	Date: <u>6-25-09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>2005</u>	Dropped By: <u>Mark Morgan</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Kerosene</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>10.0</u> #2 <u>20.0</u> #3 <u>10.0</u> #4 <u>10.0</u> #5 <u>10.0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: <u>1</u>
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JK Date: 6-25-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

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CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001205

# Environmental Services

# TANK WASH WORK ORDER

Trailer / Tank Cleaning Division  
 804 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

24629

PO #	Customer: <u>Tideport</u>	Date: <u>6/25/09</u>
Tractor <u>595</u>	Address:	Time: <u>11:11</u>
Trailer / Container Number <u>1047</u>	Dropped By: <u>Mark D. Morgan</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☒ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>JP-8</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>9</u> #2 <u>9</u> #3 <u>9</u> #4 <u>9</u> #5 <u>9</u>
2 Quick Rinse		LEL (<10%) #1 <u>9</u> #2 <u>9</u> #3 <u>9</u> #4 <u>9</u> #5 <u>9</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>9</u> #2 <u>9</u> #3 <u>9</u> #4 <u>9</u> #5 <u>9</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>9</u> #2 <u>9</u> #3 <u>9</u> #4 <u>9</u> #5 <u>9</u>
5 Steam Only (Per Hour)		Signature: <u>JA</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <u>✓</u>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <u>✓</u>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date: 6-25-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001206

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24663**

PO #	Customer: <u>T. JELSON</u>	Date: <u>6-27-09</u>
Tractor <u>897</u>	Address: <u>18031 DECAVALA RD</u>	Time: <u>1045</u>
Trailer / Container Number <u>3009</u>	Dropped By: <u>CORIE LYON</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date: 6-27-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

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EPAHO082001207

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24667

PO #	Customer: <u>Tideport</u>	Date: <u>6-29-09</u>
Tractor <u>917</u>	Address:	Time:
Trailer / Container Number	Dropped By: <u>[Signature]</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Pump</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge ✓		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning ✓		

Cleaned By: AK Date: 6-29-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001208

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24675**

PO #	Customer: <i>T. Dupont</i>	Date: <i>6/29/09</i>
Tractor <i>0005 895</i>	Address:	Time: <i>10:21 pm</i>
Trailer / Container Number <i>1055</i>	Dropped By: <i>Mark Morgan</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Light Fuel oil</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <i>✓</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>2</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <i>B-H</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *B-H* Date: *6-29-9*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001209

# CES Environmental Services

## TANK WASH WORK ORDER

Container / Tank Cleaning Division  
1904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

24544

PO #	Customer: <i>Tidepon</i>	Date: <i>6-30-09</i>
Tractor	Address:	Time:
Trailer / Container Number <i>T-526</i>	Dropped By: <i>John</i>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>Hydrocarbons</i>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) <i>100%</i> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <i>JR</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *JR.* Date *6-30-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001210

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24682

PO #	Customer: <u>TIDE POPT</u>	Date:
Tractor	Address:	Time:
Trailer / Container Number <u>7448</u>	Dropped By: <u>Josh</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>ether</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) # <u>20.1</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>2</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>JL</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: A-11 JL Date 6-30-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001211

# ES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24766

PO #	Customer: <u>T. deport</u>	Date: <u>7-03-09</u>
Tractor <u>914</u>	Address:	Time: <u>07:30</u>
Trailer / Container Number <u>1048</u>	Dropped By: <u>C. A. Foreman</u>	Need By: <u>7-06-09</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>P.B. HOF-750</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date 7-3-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001212

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24742

PO #	Customer: <u>T. de port</u>	Date: <u>7-6-9</u>
Tractor <u>734</u>	Address:	Time:
Trailer / Container Number <u>T. 639</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Elevated oil</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>12</u> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date 7-7-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: [Signature]

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001213

**Environmental Services**

Trainer / Tank Cleaning Division  
Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24830**

PO #	Customer: <u>Indepert</u>	Date: <u>7/5/09</u>
Tractor <u>884</u>	Address:	Time: <u>10:57</u>
Trailer / Container Number <u>1075</u>	Dropped By: <u>[Signature]</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Oil #2</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date: 7-9-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001214

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24873

PO #	Customer: <i>Texas Oil &amp; Gas</i>	Date: <i>7/21/09</i>
Tractor	Address:	Time: <i>12:00</i>
Trailer / Container Number <i>1802</i>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>1802</i>	<i>Dist.</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5%-23.5%) #1 <i>100</i> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <i>0</i> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <i>0</i> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <i>0</i> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature <i>AR</i>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<i>LEL</i> <i>5 ppm</i> <i>50</i>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: *AR* Date *7-21-09*

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001215

# CES Environmental Services

Container / Tank Cleaning Division  
4004 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24736

PO # 8320	Customer: Petro Express	Date: 7/7/09
Tractor	Address:	Time: 12:00 pm
Trailer / Container Number LT-1276	Dropped By:	Need By: ASAP

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	oil water			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO2 (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: 2 Drums @ 435 psi dia 1 hr Dried off 435
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		_____
19 Hydroblaster (# Hours)		_____
20 Solvent Wash (Green Stripper)		_____
21 Passivation		_____
Hose Cleaning	_____	
Pump Cleaning	_____	

Cleaned By: BH / SL Date: 7/17/09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001216

# Environmental Services

er / Tank Cleaning Division  
Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24902

PO # <u>DE 2140</u>	Customer: <u>W. J. P. 2nd</u>	Date: <u>7/28/09</u>
Tractor: <u>105</u>	Address:	Time: <u>10:15</u>
Trailer / Container Number: <u>LT-372</u>	Dropped By:	Need By: <u>11:55 AM</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Feed Stock</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>12</u> #2 <u>10</u> #3 <u>10</u> #4 <u>10</u> #5 <u>10</u>
2 Quick Rinse		LEL (<10%) #1 <u>5</u> #2 <u>5</u> #3 <u>5</u> #4 <u>5</u> #5 <u>5</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>AR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: AR Date: 7-28-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001217

# CES Environmental Services

Container & Tank Cleaning Division  
4904 Gigg's Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24803

PO #	Customer: <b>NOLTEX</b>	Date: <b>7/20/09</b>
Tractor <b>297</b>	Address:	Time:
Trailer / Container Number <b>249</b>	Dropped By: <b>[Signature]</b>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Vinyl acetate, methanol</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>JR</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <b>FLAMABLE LIQUIDS</b>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JR** Date **7-21-09**

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: **[Signature]** Date **7/21/09**

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001218

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24803

PO #	Customer: <u>NOLTEX</u>	Date: <u>7/20/09</u>
Tractor <u>297</u>	Address:	Time:
Trailer / Container Number <u>249</u>	Dropped By: <u>[Signature]</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Unlabeled material</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <u>100</u> #2 <u>100</u> #3 <u>100</u> #4 <u>100</u> #5 <u>100</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <u>FLAMMABLE LIQUIDS</u>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: [Signature] Date 7-24-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: [Signature] Date 7/20/09

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001219

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24414**

PO #	Customer: <u>CES Environmental</u>	Date:
Tractor <u>2000</u>	Address:	Time: <u>1000</u>
Trailer / Container Number <u>270</u>	Dropped By: <u>Sauier</u>	Need By: <u>ASAP</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Hazardous rinse water</u>			
2	<u>UN 1993, waste flammable liquid</u>			
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>not</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>8</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>8</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>8</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>A.R.</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <u>ASAP</u>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: A.R. Date 7-17-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: Sauier Date 7/17/09

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001220

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24893**

PO #	Customer: <b>CEG (RECYCLE)</b>	Date: <b>7/22/09</b>
Tractor	Address:	Time: <b>1700</b>
Trailer / Container Number <b>410</b>	Dropped By:	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	CEG UNRESTRICTED LIGHT ENDS (1993)			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry	<b>X</b>	Oxygen (19.5% -23.5%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>[Signature]</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<b>CLEAN : DRY FOR BASE OIL</b>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **CP** Date: **7-23-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: **CHRISTOPHER** Date: **7/22/09**Signature: **[Signature]**

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001221

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24893**

PO #	Customer: <b>CES (RECYCLE)</b>	Date: <b>7/22/09</b>
Tractor	Address:	Time: <b>1700</b>
Trailer / Container Number <b>411</b>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>C. UNIDENTIFIED LIQUIDS (1795)</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry	<b>X</b>	Oxygen (19.5%-23.5%) #1 <b>11</b> #2 <b>11</b> #3 <b>11</b> #4 <b>11</b> #5 <b>11</b>
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 <b>0</b> #3 <b>0</b> #4 <b>0</b> #5 <b>0</b>
5 Steam Only (Per Hour)		Signature: <b>[Signature]</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<b>CLEAN : DRY FILL</b>
9 Caustic Wash & Dry		<b>BASE OIL</b>
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **CR** Date: **7-22-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residue and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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Print Name: **ALAN HARRIS** Date: **7/22/09**Signature: **[Signature]**

EPAHO082001222

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24900**

PO #	Customer: <i>CES</i>	Date: <i>7/28/09</i>
Tractor: <i>295</i>	Address:	Time: <i>8:32</i>
Trailer / Container Number: <i>57</i>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <i>WATER</i>	<i>Class III waste water</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: \_\_\_\_\_ Date: *7/28/09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001223

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24900

PO #	Customer: <i>CES</i>	Date: <i>7/28/09</i>
Tractor: <i>295</i>	Address:	Time: <i>8:52</i>
Trailer / Container Number: <i>27</i>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<i>water</i>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO2 (<35 ppm) #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 _____ #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: _____
6 Steam & Dry		Stripper Usage: _____
7 Rinse, Steam & Dry		Comments: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services: _____
18 Hand Labor (# Men / # Hours)		_____
19 Hydroblaster (# Hours)		_____
20 Solvent Wash (Green Stripper)		_____
21 Passivation		_____
Hose Cleaning		_____
Pump Cleaning		_____

Cleaned By: \_\_\_\_\_ Date: *7/28/09*

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001224

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24624**

PO #	Customer: <u>CES</u>	Date: <u>6-21-9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>227</u>	Dropped By: <u>Javier R.</u>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>gassy water</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>10</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>5</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>5</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>5</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>B-H</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: B-H Date 6-21-9

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001225

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24634**

PO #	Customer: <b>CES</b>	Date: <b>6-21-9</b>
Tractor	Address:	Time:
Trailer / Container Number: <b>210</b>	Dropped By: <b>JAVIER R</b>	Need By:

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Lightends</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) #1 <b>10</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>2</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>2</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>2</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>JL</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **JL** Date: **6-24-9**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001226

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER****24633**

PO #	Customer: <u>CES/Petro Exp.</u>	Date: <u>6.24.9</u>
Tractor	Address:	Time:
Trailer / Container Number <u>1206</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Light ends</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>001</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JE</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JE Date: 6.24.9

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_

EPAHO082001227

# CES Environmental Services

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24725

PO #	Customer: <u>CES</u>	Date: <u>7-2-09</u>
Tractor	Address:	Time:
Trailer / Container Number <u>7253</u>	Dropped By: <u>ROLANDO MORALES</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>white methanol</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>C.P.</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry ✓		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal) ✓		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: C.P. Date 7-4-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001228

# Environmental Services

## TANK WASH WORK ORDER

Owner / Tank Cleaning Division  
 4 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

24525

PO #	Customer: <u>1 DANA</u>	Date: <u>6/22/09</u>
Tractor <u>46803</u>	Address:	Time: <u>11:39 AM</u>
Trailer / Container Number <u>15611</u>	Dropped By: <u>Antonio Ochoa</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>HDI</u>				
2				
3	<u>SET - JP</u>			
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>[Signature]</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <input checked="" type="checkbox"/>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <input checked="" type="checkbox"/>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours) <input checked="" type="checkbox"/>		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: AR ST. Date 6-30-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001229

# Environmental Services

## TANK WASH WORK ORDER

Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

24704

PO #	Customer: <u>Free Bird</u>	Date: <u>6-30-9</u>
Tractor <u>232</u>	Address:	Time:
Trailer / Container Number <u>344</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>Flammable Liquid - Wax</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>J.R.</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments: <u>caustic wash</u>
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: J.R. Date: 7-1-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Quincy Gomez Date: 6/30/09

Signature: Quincy Gomez

EPAHO082001230

# Environmental Services

# TANK WASH WORK ORDER

/ Tank Cleaning Division  
 Riggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

24709

PO #	Customer: <u>Fire-Rid</u>	Date: <u>7/01/09</u>
Tractor <u>234</u>	Address:	Time:
Trailer / Container Number <u>8772</u>	Dropped By: <u>[Signature]</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<del>fuel</del> <u>xylene</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) # <u>20.07</u> #2 _____ #3 _____ #4 _____ #5 _____
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 _____ #3 _____ #4 _____ #5 _____
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>Clean</u>
9 Caustic Wash & Dry		<u>For</u>
10 Caustic Wash, Rinse & Dry		<u>Off - Road</u>
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date 7-2-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001231

# Environmental Services

# TANK WASH WORK ORDER

24761

Tractor / Tank Cleaning Division  
Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

PO #	Customer: <u>Fire Field</u>	Date: <u>7/02/09</u>
Tractor <u>229</u>	Address:	Time: <u>11:12</u>
Trailer / Container Number <u>343</u>	Dropped By: <u>Rd Barnett</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>methyle</u>				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>SC</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		<u>Caustic</u>
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: SR Date 7-3-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001232

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021 •

Phone: (713) 676-1460 • Fax: (713) 676-1676

**TANK WASH WORK ORDER**

24680

PO # <b>53392</b>	Customer: <b>ITS</b>	Date: <b>6-30-09</b>
Tractor <b>151</b>	Address:	Time: <b>12:20</b>
Trailer / Container Number <b>2202</b>	Dropped By: <b>Freddy G.</b>	Need By: <b>ASAP</b>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<b>Methanol Water</b>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <b>0</b> #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 <b>0</b> #2 #3 #4 #5
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <b>0</b> #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 <b>0</b> #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: <b>Freddy G.</b>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: **CP** Date: **6-30-09**

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: **Freddy G.** Date: **6-30-09**Signature: **Freddy G.**

EPAHO082001233

# Environmental Services

Trainer / Tank Cleaning Division  
 504 Griggs Rd. • Houston, TX 77021  
 Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24754

PO #	Customer: <u>JTS</u>	Date: <u>7-2-09</u>
Tractor <u>129</u>	Address:	Time:
Trailer / Container Number <u>LT 1266</u>	Dropped By: <u>Francisco A. Rendon</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Alcohol</u>				
2 <u>MEK</u>				
3 <u>MEK</u>				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% - 23.5%) <u>#1 0 #2 0 #3 0 #4 0 #5 0</u>
2 Quick Rinse		LEL (<10%) <u>#1 0 #2 0 #3 0 #4 0 #5 0</u>
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) <u>#1 0 #2 0 #3 0 #4 0 #5 0</u>
4 Hot Water Rinse		Toxic Vapor <u>#1 0 #2 0 #3 0 #4 0 #5 0</u>
5 Steam Only (Per Hour)		Signature: <u>JK</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JK Date 7-2-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

EPAHO082001234

**CES Environmental Services**

Container / Tank Cleaning Division

4904 Griggs Rd. • Houston, TX 77021

Phone: (713) 676-1460 • Fax: (713) 676-1876

**TANK WASH WORK ORDER****24735**

PO # 531111	Customer: LTS	Date: 7/06/09
Tractor 154	Address:	Time: 13:45
Trailer / Container Number 7202	Dropped By:	Need By: ASPP

**CONTAINER TYPE:** ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☐ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	Xylol			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 21.0 #2 #3 #4 #5
2 Quick Rinse		LEL (<10%) #1 0 #2 #3 #4 #5
3 Cold Water Rinse		CO <sup>2</sup> (<35 ppm) #1 0 #2 #3 #4 #5
4 Hot Water Rinse		Toxic Vapor #1 0 #2 #3 #4 #5
5 Steam Only (Per Hour)		Signature: JL
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry	/	
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge	/	
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)	/	
16 Exterior Trailer Wash (with Internal)	/	
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)	/	
21 Passivation	/	
Hose Cleaning (3)	/	
Pump Cleaning (1)	/	

Cleaned By: ST-JL Date: 7-6-9

Inspected By: Date:

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: Date:

Signature:

EPAHO082001235

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Giggis Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24647

PO #	Customer: <u>Petroleum Express</u>	Date: <u>6-25-09</u>
Tractor	Address:	Time: <u>1130 AM</u> <u>1200 PM</u>
Trailer / Container Number <u>1318</u>	Dropped By:	Need By: <u>6-26-09-1000 AM</u>

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1 <u>Lube Oil</u>			<input checked="" type="checkbox"/>	
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry <input checked="" type="checkbox"/>		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge <input checked="" type="checkbox"/>		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date: 6-26-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

CES Environmental Services, Inc., Cleaning Division, is in no manner responsible for any damages or losses of equipment and/or materials left in their yard.

Print Name: CAROL K. ROY Date: 6-25-09

Signature: Carol K. Roy

EPAHO082001236

# CES Environmental Services

Container / Tank Cleaning Division  
4904 Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24701

PO #	Customer: <u>Petroleum Express</u>	Date: <u>7/1/09</u>
Tractor	Address:	Time: <u>2:00 AM</u>
Trailer / Container Number <u>LT-1318</u>	Dropped By:	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1				
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) # <u>20.0</u> # <u>20.0</u> # <u>20.0</u> #4 <u>0</u> #5 <u>0</u>
2 Quick Rinse		LEL (<10%) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
3 Cold Water Rinse		CO2 (<35 ppm) #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>0</u> #2 <u>0</u> #3 <u>0</u> #4 <u>0</u> #5 <u>0</u>
5 Steam Only (Per Hour)		Signature: <u>JR</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: JR Date 7-1-09

Inspected By: \_\_\_\_\_ Date \_\_\_\_\_

Print Name: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001237

# Environmental Services

Tank Cleaning Division  
Griggs Rd. • Houston, TX 77021  
Phone: (713) 676-1460 • Fax: (713) 676-1676

## TANK WASH WORK ORDER

24677

PO #	Customer: <u>T. de Poir</u>	Date: <u>6-29-9</u>
Tractor <u>939</u>	Address:	Time: <u>6:00 PM</u>
Trailer / Container Number <u>1018</u>	Dropped By: <u>Michael C. Parsons</u>	Need By:

CONTAINER TYPE: ☐ TOTE BIN ☐ ROLL DOOR BOX ☐ ISO CONTAINER ☐ DRY BULK  
☒ TANK TRAILER ☐ ROLL TARP BOX ☐ VACUUM BOX ☐ FRAC TANK ☐ POLY TANK ☐ VACUUM TRUCK

Compartment #	Last Contained	Heel - Hazardous	Heel - Non-Haz	Drum / Rolloff
1	<u>JPS</u>			
2				
3				
4				
5				

CLEANING CODES	WORK PERFORMED	TANK ENTRY PERMIT
1 Air Dry		Oxygen (19.5% -23.5%) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
2 Quick Rinse		LEL (<10%) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
3 Cold Water Rinse		CO <sub>2</sub> (<35 ppm) #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
4 Hot Water Rinse		Toxic Vapor #1 <u>2</u> #2 <u>2</u> #3 <u>2</u> #4 <u>2</u> #5 <u>2</u>
5 Steam Only (Per Hour)		Signature: <u>CP</u>
6 Steam & Dry		Stripper Usage:
7 Rinse, Steam & Dry		Comments:
8 Detergent Wash, Rinse & Dry		
9 Caustic Wash & Dry		
10 Caustic Wash, Rinse & Dry		
11 Waste Water Surcharge		
12 Solvent Wash (Diesel # Hours)		
13 Solvent Wash (Stripper)		
14 Exterior Tractor Wash		
15 Exterior Trailer Wash (w/o Internal)		
16 Exterior Trailer Wash (with Internal)		
17 Exterior Acid Brite Wash		Authorized Additional Services:
18 Hand Labor (# Men / # Hours)		
19 Hydroblaster (# Hours)		
20 Solvent Wash (Green Stripper)		
21 Passivation		
Hose Cleaning		
Pump Cleaning		

Cleaned By: CP Date: 6-30-09

Inspected By: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: Michael C. Parsons Date: 6-29-09

Signature: Michael C. Parsons

CES Environmental Services, Inc., Cleaning Division, makes no guarantees with respect to the thoroughness of the tank washing procedure or the total elimination of interior residues and/or moisture. Final inspection of the equipment remains the responsibility of the customer, and they hereby release CES Environmental Services, Inc., Cleaning Division, from any responsibility for claims arising from any allegations that the equipment was improperly cleaned, resulting in damage or loss.

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EPAHO082001238

PROFILES  
Waiting on Approval/Cust.

HPP

Praxair 1-21-09  
~~Pk Manufacturing 1-29-09~~  
Speedy (ind) 1-22-09

Atmospheric  
Air  
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Needs waste  
code  
Class I



**CES Environmental  
Services, Inc.**

**4904 Griggs Road Houston, TX 77021**  
**Phone: (713) 676-1460 Fax: (713) 676-1676**  
**http://www.cesenvironmental.com**  
**TCEQ Industrial Solid Waste Permit No: 30948**  
**U.S. EPA ID No: TXD008950461 ISWR No: 30900**

**SECTION 1: Generator Information**

**Company :** GATX (Plantersville)  
**Address :** 13018 Hwy 105  
**City, State, Zip :** Plantersville TX 77363  
**Contact :** Terry Nale **Title :**  
**Phone No :** (936) 894-3483 **Fax :** (936) 894-3517  
**24 / HR Phone :**  
**U.S EPA I.D No :** TXR000042739  
**State I.D :** 86778 **SIC Code**

**SECTION 2: Billing Information**

**Company :** GATX (Plantersville)  
**Address :** PO Box 410  
**City, State, Zip :** Plantersville TX 77363  
**Contact :** Terry Nale **Title :**  
**Phone No :** (936) 894-3483 **Fax :** (936) 894-3517

**SECTION 3: General Description of the Waste**

**Name of Waste :** Absorbent/Floor Sweep

**Detailed Description of the Process Generating Waste:**

Kitty litter absorbent and floor sweep generated from cleaning up spills and leaks of lubricating oils in machine shops.

**Physical State :** ☐ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

**Color :** Brown **Odor :** None  
**Specific Gravity (Water=1) :** NA **Density :** 15 lbs / gal

**Does this material contain any total phenolic compounds?** ☐ Yes ☒ No

**Does this material contain any para substituted phenolic compounds?** ☐ Yes ☒ No

**Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF)** ☐ Yes ☒ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

**Layers :** ☒ Single-Phas ☐ Multi-Phase

**Container Type :** ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

**Container Size :** 55

**Number Of Units :** 1-10

**Is this a USEPA "Hazardous Waste" per 40 CFR 261.3?** ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

**If "Yes", is it:** ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007  
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No :

Proper U.S. State Waste Code No : Non-RCRA/Non-DOT Regulated Material (Absorbent/Floor Sweep)

Class : na UN/NA : na PG : na RQ : na

Flash Point NA	pH NA	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 100 %
Oil and Grease >1500 mg/l	TOC na mg/l	Zinc na mg/l	Copper na mg/l	Nickel na mg/l

SECTION 4: Physical and Chemical Data

CONCENTRATION TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
absorbent	95-100	%
oil	4-5	%
citri-clean (see MSDS)	1-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

citri-clean MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : X  
TCLP Volatiles : X  
TCLP Semi-Volatiles : X  
Reactivity : X

Corrosivity : X  
Ignitability : X

**SECTION 9: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

**PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory
- Cadmium: 0.2 mg/L  
Chromium: 8.9 mg/L  
Copper: 4.9 mg/L  
Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10: Additional Instruction**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : \_\_\_\_\_ Date : \_\_\_\_\_

Printed Name / Title : \_\_\_\_\_

<b>CES USE ONLY (DO NOT WRITE IN THIS SPACE)</b>		<b>Process Facility Information :</b>	
<b>Compliance Officer :</b> _____			
<b>Date :</b> _____	<b>Status :</b>	Approved	Rejected
<b>Approval Number :</b> _____			

**MATERIAL SAFETY DATA SHEET****1: CHEMICAL PRODUCT IDENTIFICATION**

Product Name: XXXXXXXXXX  
 Manufactured for: Lawson Screen Products, Inc. 5110 Penrose Street, Saint Louis, MO 63115 USA  
 General Information: 314-644-1300  
 Emergency Phone: CHEMTREC 1-800-424-9300  
 MSDS Date: June 1, 2006

**2: COMPOSITION, INFORMATION ON INGREDIENTS**

Component	CAS REG. NO.	OSHA PEL/TWA	OSHA STEL	ACGIH TLV	ACGIH STEL
Limonene	5989-27-5	100 ppm	NE	100 ppm	NE
Alkylarylethoxylate	68412-54-4	300 ppm	NE	300 ppm	NE

**3: HAZARD IDENTIFICATION****EMERGENCY RESPONSE INFORMATION**

Hazards: H226/H231- Toxicity=1, Fire=2, Reactivity=1

**HEALTH EFFECTS FROM OVEREXPOSURE****Primary Routes of Exposure**

Eye Contact: Direct contact with material can cause severe irritation, pain and corneal injury.

Skin Contact: May cause irritation with prolonged or repeated contact. Removes natural oils and fats from skin.

Inhalation: Inhalation of mist or spray can cause irritation to nose, throat and lungs, and higher concentrations may cause headaches, nausea, dizziness, drowsiness and other central nervous system effects.

Ingestion: This material is of a low order of toxicity. It may cause headaches, dizziness, gastrointestinal distress.

**4: FIRST AID MEASURES**

Inhalation: Remove subject to fresh air. Keep subject at rest. If not breathing, give artificial respiration. Obtain medical assistance.

Eye Contact: Immediately flush eyes with a large amount of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Remove contact lenses if worn. Consult a physician.

Skin Contact: Wash affected skin areas thoroughly with soap and water for 15 minutes until no odor remains. If redness or swelling develops, consult a physician. Immediately remove contaminated clothing and wash before reuse.

Ingestion: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have person drink several glasses of water. Do not induce vomiting. Keep airway clear. Keep subject at rest. Obtain Emergency Medical Attention.

**5: FIRE FIGHTING MEASURES****FIRE AND EXPLOSIVE PROPERTIES:**

Flash Point: 110°F TCC = 43.3°C

Auto-ignition Temperature: 525°F = 274°C Estimated

Lower Explosion Limit: 0.7 % Volume Estimated

Upper Explosion Limit: 6.1 % Volume Estimated

Unusual Hazards: Combustible liquid; will release irritable vapors that form combustible mixtures that might ignite or explode under some conditions. Vapors can travel considerable distances to an ignition source and flash back. Toxic gases will form upon combustion. Material will partially dissolve and then float on water. Rags, cloth or cardboard which is soaked with product can spontaneously combust. Do not dispose of solvent soaked materials in an open dumpster or trash can; store in an approved covered waste can or soak materials with water. Failure to properly dispose of soaked materials can cause a fire.

Extinguishing Agents: Water spray, regular foam, dry chemical, carbon dioxide are appropriate. Use extinguishing media appropriate for surrounding media. Avoid spraying water directly into storage containers due to danger of boil-over. Use water spray to cool adjacent fire exposed containers to avoid rupture and spattering.

**6: FIRE FIGHTING MEASURES (Continued)**

**Personal Protective Equipment:** Keep personnel removed and upwind.

**As in any fire, wear self-contained breathing apparatus (pressure demand, NIOSH/MSHA approved or equivalent) and full protective gear.**

**Special Procedures:** Water may spread the fire.

**6: ACCIDENTAL RELEASE MEASURES**

**Personal Protection:** Appropriate protective equipment must be worn when handling a spill of this material. See the **PERSONAL PROTECTION MEASURES** Section for recommendations. If exposed to material during clean-up operations, see the **FIRST AID PROCEDURES** Section for appropriate actions.

**Procedures:** Prevent ignition; stop leak; ventilate area; keep spectators away; contain spill immediately with inert noncombustible materials (e.g. sand, earth, absorbent). Transfer liquids and solid sludge material to separate suitable containers for recovery or disposal. **CAUTION:** Keep spills and cleaning runoff out of municipal sewers, watercourses and open bodies of water. Use water spray to disperse vapors.

**7: HANDLING AND STORAGE**

**Handling:** Avoid contact with skin, eyes or clothing. Avoid breathing of mist or vapor.

**Storage Conditions:** Keep away from heat, sparks and open flame.

Protect from storage temperatures above 120°F. Keep in a well ventilated space that is NFPA Class 1C. Consult NFPA and OSHA codes.

Transfer operations must be electrically grounded. Keep Out of Reach of Children. Store upright in original closed container.

"Empty" containers retain product residue (liquid and/or vapor) that can be dangerous. Empty drums should be completely drained and properly banded and promptly returned to a reconditioner or other proper disposal.

**8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Respiratory Protection:** A respiratory program meeting OSHA 1910.134 and ANSI Z89.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Use of this product does not require respiratory protection under normal operating conditions but use of local exhaust ventilation is recommended, especially for confined spaces.

Where vapors or mists may occur, wear a MSHA / NIOSH approved (or equivalent) half-mask air purifying respirator. Air purifying respirators should be equipped with organic vapor cartridges and dual and mist filters.

**Eye Protection:** Wear chemical splash goggles (ANSI Z87.1 or approved equivalent), or full-face shield.

**Hand Protection:** Wear gloves resistant to solvent permeation: neoprene, nitrile, polyvinyl alcohol, vinyl.

**Other Protection:** None required.

**FACILITY CONTROL MEASURES:**

**Ventilation:** Use with adequate ventilation. Local exhaust ventilation is recommended and explosion equipment is required.

**Other Protective Equipment:** facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

**9: PHYSICAL AND CHEMICAL PROPERTIES - TYPICAL**

State	Liquid	Vapor Density (Air = 1)	< 1
Chemical Formula	Mixture	Vapor Pressure	< 1 mm Hg @ 20°C
Appearance	Clear	Freezing Point	< -73°C = -100°F
Color	Colorless to pale amber	Boiling Point	160°C = 320°F initial
Odor	Characteristic citrus	Solubility in Water	emulsifiable
Viscosity	Thin < 5 cSt @ 25°C	Percent Volatility	90%
pH as is	Slightly acidic in water	VOC %	90% = 6.48 Lbs/Gal
Specific Gravity @ 60°F	0.865	Kauri-Butanol Value	> 70
Density @ 60°F	7.2 Lbs/Gal	Refractive Index @ 20°C	1.4735 typical

**10: STABILITY AND REACTIVITY**

**Instability:** This material is considered stable.

**Hazardous Decomposition Products:** There are no known hazardous decomposition products for this material except for Carbon Dioxide, Carbon Monoxide if burned.

**Hazardous Polymerization:** This product will not undergo polymerization.

**Incompatibility:** This product is not compatible with strong acids and strong oxidizing agents.

**11: TOXICOLOGICAL INFORMATION**

Inhalation of large quantities of vapor for extended periods is presumed to be harmful. Overexposure to high concentrations can cause eye, nose, throat, lung irritation; dizziness, difficulty in breathing, unconsciousness. Information available on the chronic health effects from long term exposure is limited. Skin contact can incur absorption. Repeated or prolonged contact is irritating.

Eye contact is irritating. Oral consumption is harmful if swallowed.

Pulmonary irritation can enter lungs and cause damage.

**12: ECOLOGICAL INFORMATION**

Toxic to fish and food organisms.

**13: DISPOSAL CONSIDERATIONS**

Procedure: Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

**14: TRANSPORTATION INFORMATION**

Proper Shipping Name: Combustible Liquid, n.o.s. (Contains Limonene), NA1983, PG III

Emergency Response Guide No.: 27/125

Per 49 CFR 173.160 (f) the hazardous material requirements for non-bulk packaging such as drums and pails and cases need not apply except for aircraft transportation.

**15: REGULATORY INFORMATION****WORKPLACE CLASSIFICATIONS**

This product is considered to be hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is a 'controlled' product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Class B - Division 3; Combustible Liquid

Class D - Division 2B

**EMERGENCY PLANNING AND COMMUNITY RIGHT - TO KNOW (SARA TITLE III)**

Section 311/312 Categorizations (40 CFR 370): This product is a hazardous material under 29 CFR 1910.1200, and therefore is covered by Title III of SARA and is classified into the following hazard categories: P16

**16: REGULATORY INFORMATION (Continued)**

Section 313 Information (40 CFR 372): This product is not a chemical which is listed in Section 313 at or above the de minimis concentrations. CERCLA INFORMATION (40 CFR 302.4): Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

RORA INFORMATION: When a decision is made to discard this material as supplied, it does meet RORA's characteristic definition of ignitability. CHEMICAL CONTROL LAW STATUS: All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. This mixture is not considered to be a carcinogen by IARC or NTP. This Mixture is a by product of base materials that are entirely of natural vegetable origin. Solvent does NOT contain and is NOT manufactured with any of the Class I or Class II ozone depleting substances listed under the US Clean Air Act of 1980.

**16: OTHER SUPPLEMENTAL INFORMATION ABBREVIATIONS**

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
BAs	Butyl acetate
NE	Not Established
ND	Not Determined
NA	Not Applicable

The information contained herein pertains only to the specific material identified. Lawson Green Products, Inc. believes that such information and recommendations set forth herein are accurate and reliable as of the date of this material safety data sheet, but Lawson Green Products, Inc. makes no representation as to the completeness or accuracy thereof and supplies the information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Lawson Green Products, Inc. be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation, guarantee or warranty, either express or implied, is made hereunder as to the accuracy, reliability, completeness of the information, of merchantability, of fitness for a particular purpose or of any other nature, with respect to information or the product to which it refers.

Evalca-Sale of Methanol

**CES Environmental Services, Inc.**

**4904 Griggs Road**

**Houston, TX 77021**

**713-676-1460 Main**

**713-676-1676 Fax**

---

Mr. Mark Sokolow  
City Attorney  
City of Port Arthur  
444 4th Street, Suite 426  
Port Arthur, TX 77640

RE: PACES and Autopsy of Joey Sutter

Dear Mr. Sokolow:

The recent Joey Sutter Autopsy Report released after April 17, 2009, had several incorrect statements and omitted information. Susan Jones at Southeast Texas Forensic Center (Jefferson County Morgue) stated that the sulfhemoglobin in blood test identified on the NMS Labs Report Issued January 20, 2009 had results below testing limits and that the Toxicology Report can be revised to clearly reflect this fact. This biological marker used to indicate hydrogen sulfide exposure reflected no exposure with the low results below testing limits.

The Joey Sutter Autopsy Report did not acknowledge that the NMS Labs Report of January 20, 2009, showed the thiosulfate levels in Mr. Sutter's urine were normal. This is another biological marker for hydrogen sulfide exposure that reflected no excessive exposure.

The NMS Labs Report of March 25, 2009 did not acknowledge the results of the sulfhemoglobin blood test or thiosulfate level in urine report of January 20, 2009. The NMS Labs Report of March 25, 2009, based the hydrogen sulfide poisoning on one thiosulfate test in a blood sample that was 2.5 months old or 1.5 months beyond NMS Labs sample stability limit of one month.

The Joey Sutter Autopsy Report dated April 17, 2009 written by T. Brown is based on the March 25, 2009 NMS Labs Report that omitted information, used an old unstable blood sample, and contained other incorrect information. Both reports state that the site operator was boiling wastewater in a sealed tank (trailer). However, there was not any steam heat available at the site and no other source of heat was being used. The material in the truck trailer was oil not wastewater. (See Attached OSHA Data) Both reports omitted OSHA and PAFD testing that shows no hydrogen sulfide in Joey Sutter's clothes. Both reports

omitted OSHA data showing analysis of the gas head space over the oil sample from the trailer which reported no hydrogen sulfide. (See Attached OSHA Data)

Both reports state that the dome lid was opened by Joey Sutter when in fact the dome lid was not opened at all.

The Joey Sutter Autopsy Report written by T. Brown (04/17/09) states that Mr. Sutter was knockdown and deprived of life due to hydrogen sulfide poisoning. Technical information states that hydrogen sulfide concentrations required to knockdown must be 700 to 1000 ppm. As you can see by the attached information, Mr. Sutter was not alone on the trailer and that his fellow worker's personnel H<sub>2</sub>S alarm set at 10 ppm never activated. This also places the Sutter Autopsy Report findings in doubt, since the second person on the trailer within two feet did not have any ill effects from hydrogen sulfide, or alarm activated.

After review of the two biological markers, negative sulfhemoglobin levels in the blood and normal thiosulfate in urine, nearby hydrogen sulfide monitor alarm information, information that nearby workers were not harmed by any hydrogen sulfide, incorrect circumstantial information, and the one data point of thiosulfate in blood that was based on an old unstable blood sample and used as the basis for Mr. Brown's Autopsy Report of Joey Sutter, we believe that the autopsy came to the wrong conclusion about hydrogen sulfide exposure. In fact, Mr. Sutter had high blood pressure, enlarged heart and was obese.

We have attached information regarding the second death (Charles Brent Sittig) which shows no exposure to hydrogen sulfide and that Mr. Sittig was not in any work related activity at the time of death.

In addition, Mr. Sittig was over weight with possible blood pressure issues. (See Attached Information)

If you have any questions, please call me.

Very truly yours,

Matt Bowman

## Two Incident Reports

(b) (6) and (b) (6)

(b) (6)

### Pre- Incident

Several days before December 17, 2008 Trailer 267 was loaded with oil from an emulsion breaking process at the PACES site 2420 South Gulfway, Port Arthur, TX.

On December 17, 2008, Brian Weathers sampled Trailer 267, removing a sample of the oil from inside the trailer. (See Attachment 1)

### Incident

On December 18, 2008, at 2:00pm, Suzi Mock and (b) (6) went to Trailer 267 to resample the oil in the trailer. Ms. Mock climbed to the top of Trailer 267 first. Mr. (b) (6) started up the ladder after and behind Ms. Mock. As Mr. (b) (6) reached the top of the latter he collapsed. Ms. Mock grabbed Mr. (b) (6) so he would not fall from the Trailer 267. Ms. Mock pulled Mr. (b) (6) to the top of the Trailer 267. Mr. (b) (6) and Ms. Mock did not open the dome lid nor did she or Mr. (b) (6) obtain a sample at this time. This was at 2:00pm, Thursday, December 18, 2008.

Ms. Mock called for help and at 2:10pm (12/18/08) the Port Arthur Fire Department was notified. (See Attachment 2) Within a few minutes of 2:00pm (12/18/08) Mr. Wood went to Ms. Mock to assist her with Mr. (b) (6). Mr. Wood also assisted Ms. Mock to turn Mr. (b) (6) over, still on top of the Trailer 267.

At 2:20pm (12/18/08) the Port Arthur Fire Department arrived and by 2:35pm, Mr. (b) (6) was removed from the top of the Trailer 267 by the Port Arthur Fire Department. (See Attachment 2)

Ms. Mock did not experience any illness from any hydrogen sulfide release when she was with Mr. (b) (6) on top of the Trailer 267. Ms. Mock's personal hydrogen sulfide monitor did not trigger when she was on top of the Trailer 267. Ms. Mock's monitor was set to alarm at 10 ppm hydrogen sulfide. Mr. Wood did not experience any illness from hydrogen sulfide while assisting Mr. (b) (6).

The Port Arthur Fire Department placed Mr. (b) (6) clothes and the Port Arthur Fire Department hydrogen sulfide meter in a bag. The Port Arthur Fire Department measured a reading of -0- hydrogen sulfide. The Port Arthur Fire Department returned to the top of Trailer 267 two hours after Mr. (b) (6) was removed and measured only 1 ppm hydrogen sulfide. (See Attachment 2)

## **Post Incident**

OSHA tested Mr. (b) (6) clothes for hydrogen sulfide and did not find any hydrogen sulfide. (See Attachment 3) OSHA tested the head space over an oil sample from Trailer 267 and did not find any hydrogen sulfide. (See Attachment 4)

Hydrogen sulfide technical information sources state that it takes 700 to 1000 ppm of hydrogen sulfide to knockdown an individual with hydrogen sulfide. In addition, when a group of people are together near a hydrogen sulfide release all persons suffer health problems. (See Attached 5)

OSHA measured organic sulfur compounds in the oil which exhibits a smell similar to hydrogen sulfide, but the organic sulfur compounds are liquid at ambient temperatures and not a toxic gas.

In addition, the oil in Trailer 267 was not heated prior to the December 18, 2008 incident, since no steam was available and the trailer had been loaded prior to December 17, 2008 without any modifications of the oil for two days. (See Attachment 6)

In summary, pre-incident information and post incident information does not support the concept that hydrogen sulfide was released from a trailer during a short time of a few minutes at such level of 700 to 1000 ppm to cause one of two people side-by-side to collapse and die in minutes while the second person is holding on to the dying person without having her personal hydrogen sulfide alarm activate. (See Attachment 7)

In addition, a third person climbed to the top of Trailer 267 to assist the two already on trailer without getting sick from hydrogen sulfide. Also, the Port Arthur Fire Department representative did not note any problems with anyone other than Mr. (b) (6). Remember, Trailer 267 was sampled the day before with out any problems.

## **(b) (6) Autopsy Comments**

The autopsy based its conclusions on a lab report from NMS Labs dated March 25, 2009. This NMS Labs Report based its conclusion on one test of one blood sample which was received on March 5, 2009 by NMS Labs, when the death occurred on December 18, 2008. This delay in testing appears to have violated acceptable protocols.

The NMS Labs Report did not state that Mr. (b) (6) died from hydrogen sulfide poisoning. The report stated that the measured value of thiosulfate in the blood sample was similar to values found in four other situations where people were believed to have died from hydrogen sulfide. However, the thiosulfate value of 43% of the cases were above 11 mcg/ml (value measured in Mr. (b) (6) blood) and 43% were below the 11 mcg/ml value. The NMS Labs Report did not speak to another NMS Labs analysis report on urine from Mr. (b) (6) received January 15, 2009. (See Attachment 8)

This report stated that thiosulfate in urine was normal. Technical information states that thiosulfate in urine is just as valid as thiosulfate in blood for measuring hydrogen sulfide exposure.

Both the NMS Labs Report of March 25, 2009 and the T. Brown Autopsy Report of April 17, 2009 omitted the sulfhemoglobin in blood data identified in the NMS Labs Report of January 20, 2009. Susan Jones at Southeast Texas Forensic Center (Jefferson County Morgue) stated that the sulfhemoglobin measured levels were below testing limits. As a biological marker the test data reflects no exposure to hydrogen sulfide.

Both the NMS Labs (3/25/09) report and the Mr. (b) (6) Autopsy had many facts wrong. For example, both stated that the site operator (PACES) was boiling water in a closed dome tank (trailer) to drive off hydrogen sulfide. Remember, this material is oil in a tanker which is not heated, since no steam was available. Also, the thiosulfate analysis of the blood did not follow correct procedures, where the thiosulfate test in the urine did follow correct lab procedures.

The (b) (6) Autopsy Report did show that Mr. (b) (6) was over weight to the point of being obese and a smoker. Mr. (b) (6) blood pressure values of August 2008 were 136/90. These numbers reach the level of Stage 1 Hypertension. Technical data states that hypertension can result in hardening of the arteries, enlarged heart, and other health issues. The T. Brown Autopsy Report (04/17/09), states that Mr. (b) (6) had cardiomegaly (an enlarged heart). The risk of complications from an enlarged heart are heart failure, blood clots, cardiac arrest, and sudden death.

(b) (6)

### **Incident**

On April 14, 2009, (b) (6) (truck driver for PACES) returned to the site with a load of weak caustic solution that was not loaded by him. Mr. (b) (6) parked the tractor and trailer to be unloaded by another person and moved away from the trailer into the maintenance office area of the plant site.

Mr. (b) (6) sat in a chair and collapsed while making a telephone call. Mr. (b) (6) was a few feet away from the maintenance person who went to him after he collapsed. The maintenance person did not have any affects from hydrogen sulfide and there was not any hydrogen sulfide release or triggered any alarms.

### **Post Incident**

The material from Mr. (b) (6) truck was placed in NV1 Tank and tested for sulfides. The measured sulfide in the material was less than 1 ppm sulfide (See Attachment 9).

Data from Mr. (b) (6) file shows that he was overweight. In the past his blood pressure was close to values that would disqualify him as a driver.

In summary, Mr. (b) (6) was not engaged in activity at the time of death. There was no hydrogen sulfide released at the time of his death. Mr. (b) (6) was near others that did not experience any hydrogen sulfide problems and his trailer contained material that was below 1 ppm sulfide which he did not load or unload.

### **Summary of Both Incident Reports (Mr. (b) (6) and Mr. (b) (6))**

Hydrogen sulfide poisoning could have not been the mechanism that caused the two deaths, since the exposure level (700 to 1000 ppm) required to knockdown and kill quickly would have affected companions, triggered alarms, showed up in clothes, and introduced odors over a wide area since the odor threshold of hydrogen sulfide is 0.005 ppm.

In addition, low levels of hydrogen sulfide over long periods of time would not have been a factor in the deaths since recent and past results show no adverse impacts from low levels of hydrogen sulfide. Most recent data shows that low levels of hydrogen sulfide lowers blood pressure. (See Attachment 10)

However, both Mr. (b) (6) and Mr. (b) (6) had weight and blood pressure issues that were significant and indicators of personal health issues.

# Laboratory Analysis Report

Total Number of Pages: 9

Job ID : 09050433



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :  
0520-A (CES Methanol)

Report To : Client Name: CES Environmental  
Attn: Joe Camp  
Client Address: 4904 Griggs Rd  
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0520-A  
Sample Collected By: Joe Camp  
Date Collected: 05/20/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
0520-A (CES Methanol)	Liquid	09050433.01

*Shantall Carpenter*

Released By: Shantall Carpenter  
Title: Project Manager  
Date: 5/28/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/30/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 05/20/2009 13:53

# LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09050433

Date: 5/28/2009

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

D1	Sample required dilution due to matrix effects.
D2	Sample required dilution due to high concentration of target analyte.
L1	Associated LCS/LCSD recovery is above acceptance limits for flagged analyte. Bias may be high.
V1	CCV recovery is above acceptance limits. This target analyte was not detected in the sample.
V6	CCV recovery is above the control limit for this analyte, however the average %difference for all the analytes meets method criteria.



## LABORATORY TEST RESULTS

09050433

5/28/2009

0520-A (CES Methanol)

05/20/09

13:00

09050433.01

Liquid

## ASTM D1744

	Water (Karl Fischer)	16.1	%	1	0.01		05/27/09 09:46	KS
SW-846 8015D	Non Purgeable Organic Compounds							
	Methanol	849169	mg/L	10000	20000		05/26/09 16:22	PNS
SW-846 8260B	Volatile Organic Compounds							
	Methyl Acetate	68	mg/L	2500	12.5	D2	05/20/09 18:20	HW
	Vinyl Acetate	BRL	mg/L	250	1.25	D1	05/20/09 16:25	HW
	p-Bromofluorobenzene(surr)	104	%	250	70-130		05/20/09 18:20	HW
	Toluene-d8(surr)	109	%	250	70-130		05/20/09 18:20	HW
	1,2-Dichloroethane-d4(surr)	106	%	250	70-130		05/20/09 18:20	HW
	Dibromofluoromethane(surr)	106	%	250	70-130		05/20/09 18:20	HW
SW-846 8315A	Aldehydes by HPLC							
	Acetaldehyde	3.93	mg/L	4.8	0.096		05/26/09 13:26	HK
	Formaldehyde	0.567	mg/L	0.48	0.024		05/26/09 13:37	HK

# QUALITY CONTROL CERTIFICATE



Job ID : 09050433

Date : 5/28/2009

Analysis : Volatile Organic Compounds	Method : SW-846 8260B	Reporting Units : mg/L
QC Batch ID : Qb09052114	Created Date : 05/20/09	Created By : Whuimei
Samples in This QC Batch : 09050433.01		
Sample Preparation : PB09052025	Prep Method : SW-846 5030C	Prep Date : 05/20/09 16:15 Prep By : Whuimei

**QC Type: Method Blank**

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Methyl Acetate	79-20-9	BRL	mg/L	1	0.005	
Vinyl Acetate	108-05-4	BRL	mg/L	1	0.005	

**QC Type: LCS and LCSD**

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD Ctrl Limit	%Recovery Ctrl Limit	Qual
Methyl Acetate	0.02	0.016	80	0.02	0.019	95	17.1	35	80-120	
Vinyl Acetate	0.02	0.034	170	0.02	0.029	145	15.9	35	41-145	L1

Refer to the Definition page for terms.

# QUALITY CONTROL CERTIFICATE



Job ID : 09050433

Date : 5/28/2009

Analysis : Aldehydes by HPLC Method : SW-846 8315A Reporting Units : mg/L

QC Batch ID : Qb09052634 Created Date : 05/26/09 Created By : Hkhuc

Samples in This QC Batch : 09050433.01

Extraction : PB09052115 Prep Method : SW-846 8315A Prep Date : 05/21/09 09:00 Prep By : Lwang

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Acetaldehyde	75-07-0	BRL	mg/L	1	0.02	
Formaldehyde	50-00-0	BRL	mg/L	1	0.05	

## QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD Ctrl Limit	%Recovery Ctrl Limit	Qual
Acetaldehyde	0.16	0.132	82.5	0.16	0.133	83.1	0.8	35	60-125	
Formaldehyde	0.16	0.111	69.4	0.16	0.111	69.4	0	35	60-125	

Refer to the Definition page for terms.

# QUALITY CONTROL CERTIFICATE



Job ID : 09050433

Date : 5/28/2009

Analysis : Non Purgeable Organic Compounds Method : SW-846 8015D Reporting Units : mg/L

QC Batch ID : Qb09052704 Created Date : 05/27/09 Created By : Psaraiya

Samples in This QC Batch : 09050433.01

Sample Preparation : PB09052702 Prep Method : SW-846 8015D Prep Date : 05/26/09 11:30 Prep By : Psaraiya

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Methanol	67-56-1	BRL	mg/L	1	2	

## QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Methanol	23.73	24.7	104	23.73	24.8	105	0.4	25	80-120	

Refer to the Definition page for terms.

# QUALITY CONTROL CERTIFICATE



Job ID : 09050433

Date : 5/28/2009

Analysis : Method : ASTM D1744 Reporting Units : %

QC Batch ID : Qb09052736 Created Date : 05/27/09 Created By : Ksudha

Samples in This QC Batch : 09050433.01

QC Type: Duplicate


QC Sample ID: 09050433.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Water (Karl Fischer)	16.2	16.1	%	0.1	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Water (Karl Fischer)	0.1	0.106	106	0.1	0.113	113	6.4	20	82-132	

Refer to the Definition page for terms.

 <b>10100 East Fwy (I-10) Ste. 100</b> <b>Houston, TX 77029</b> <b>713-453-6060</b> <b>1-877-478-6060 Toll Free</b> <b>713-453-6091 Fax</b> <b>ahlabs.com</b>		<b>1. REPORT TO:</b> Company: <u>CES Environmental</u> Address: <u>4904 Griggs Rd.</u> <u>Houston, TX 77021</u> Contact: <u>Joe Camp</u> Phone: <u>713-367-8601</u> Fax: <input type="checkbox"/> E-mail: <u>jcamp@cesenvironmental.com</u>		<b>2. INVOICE TO:</b> Company: <u>SAME</u> Address: _____ Contact: _____ Phone: _____ Fax: <input type="checkbox"/> E-mail: <input type="checkbox"/>		<b>3. PO #</b> _____  <b>4. Turnaround Time (Business Days)</b> <input type="checkbox"/> 1 Day* <input type="checkbox"/> Other <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days*      *Surcharge applies <input checked="" type="checkbox"/> 7 Days - Standard	
		<b>A&amp;B JOB ID #</b> <u>09050433</u> <b>5. Project #</b> _____					
<b>6. Project Name/Location</b> _____							
<b>7. Reporting Requirement:</b> <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II							
<b>8. Sampler's Name &amp; Company (PLEASE PRINT)</b> <u>Joe Camp, CES Environmental</u> <b>Sampler's Signature &amp; Date</b> <u>[Signature]</u> <u>5/20/09</u>							
<b>LAB USE ONLY</b> <b>9. Sample ID and Description</b> <u>OS20-A (CES Methanol)</u> <u>↓</u>		<b>10. Sampling</b> Date: <u>5/20/09</u> Time: <u>1:00pm</u>		<b>11. Matrix</b> Comp. Grab    Water    Soil    Sludge    Oil    Air    Other		<b>13. 14. Containers*</b> <u>P</u> <b>15. Preservatives**</b> _____ <b>16. PH-Lab Only</b> _____ <b>17. Analyses/Methods</b> <u>Vinyl Acetate</u> <u>Methyl Acetate</u> <u>Aldehydes</u> <u>Water %</u> <u>Methanol %</u>	
		Date: <u>5/20/09</u> Time: <u>1:00pm</u> <u>X</u>		<u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>		<b>18. REMARKS</b> <u>GC/MS</u>	
<b>19. RELINQUISHED BY</b> <u>[Signature]</u> DATE: <u>5/20/09</u> TIME: <u>1:53pm</u>		<b>20. RECEIVED BY</b> <u>[Signature]</u> DATE: <u>5/20/09</u> TIME: <u>1:53</u>		<b>22. KNOWN HAZARDS/COMMENTS</b> Temperature: <u>24.0</u> °C Intact: <u>Y</u> or <u>N</u> Initials: <u>[Signature]</u>			
*Containers: VOA - 40 ml vial      A/G - Amber/Glass 1 Liter 4 oz/8 oz - glass wide mouth      P/O - Plastic/other _____		**Preservatives: C - Cool    H - HCl    N - HNO <sub>3</sub> S - H <sub>2</sub> SO <sub>4</sub> OH - NaOH    T - Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> X - Other _____		<b>METHOD OF SHIPMENT</b> _____ <b>BILL OF LADING/TRACKING #</b> _____			
<b>LAB USE ONLY</b> <b>SAMPLING</b> _____ <b>RENTAL</b> _____ <b>P/U</b> _____							



## Sample Condition Checklist

Date : 05/28/09

A&B JobID : <b>09050433</b>		Date Received : <b>05/20/2009</b>		Time Received : <b>1:53PM</b>								
Client Name : <b>CES Environmental</b>												
Temperature : <b>24.0°C</b>		Sample pH : <b>n/a</b>										
	<b>Check Points</b>				<b>Yes</b>	<b>No</b>						
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.					X						
3.	If yes, ice in cooler.					X						
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative				N/A							
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>												
Sample was received in a plastic container. Client was notified that the temperature requirements were not met when dropping the sample off by DRW. Client said it was ok.												

Received by : Dwamern

Check in by/date : Dwamern / 05/20/2009


Texas - All Houston Bid Package

due  
Monday  
6.29.09  
10 AM

7%	790	FOO3	TOTAL
		DOO2	VOC
		\$	500ppm
		\$385.00	
		\$350/ton	
		10% surch	
		\$30/ton	
		TCCQ	
		10% fee	
		10% fee	

\$10/tonne C11  
\$81 ~~Owner~~  
\$30/ton FUP

1266006

 Sparco™  
File Folders  
SP111-1/3

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly (unless stated otherwise)	Quote for...	Price
Conroe	Oily Rags, Soil, and Plastic	Plant Operations	Non-haz, Class I	30,000 lbs	20 yd roll-off box	\$50.00/yard
					Any addl' fee for free liquids (stabilization fee)	\$25.00/yard addl'
					State Waste Fee	\$6.00/ton
					Box rental per day	\$15.00/day
					Box liners	\$35.00/liner
					Transportation per load	\$350.00/load <sup>1</sup>
Conroe	Water-based Pipe Coating	Coating Operation	Non-haz, Class I	1800 lbs	tote	\$195.00/tote
					State Waste Fee	\$6.00/ton
					Transportation per load	\$350.00/load <sup>1</sup>
Conroe	Paint Related Material	Paint Operations	Universal Waste	800 lbs	5- gallon buckets (liquids)	\$70.00/5 gallon bucket <sup>3</sup>
					drums (liquid)	\$120.00/drum
					5- gallon buckets (solids)	\$0.90/lb non processible solids <sup>3</sup>
					drums (solids)	\$245.00/drum solids <sup>3</sup> \$0.90/lb non processible solids <sup>3</sup>
					disposal fee	7.5% <sup>2</sup>
					Transportation Fee	\$350.00/load <sup>1</sup>
Precision	Paint	Stenciling Operations	Universal Waste	25 gallons	drums (liquid)	\$120.00/drum
					disposal fee	7.5% <sup>2</sup>
					transportation fee	\$275.00/load
Precision	Bulbs	Plant Activities	Universal Waste		8 ft and 4ft bulb	\$1.25/4ft, \$1.50/8ft
					disposal fee	NA
					Transportation Fee	\$275.00/load <sup>1</sup>
Precision	Adsorbent w/ oil	Generated from clean-up around facility	Non-Haz, Class I	15 drums	20 yd roll-off box	\$50.00/yard
					cubic yard (super sack)	\$95.00/supersack
					drum	\$45.00/drum
					Any addl' fee for free liquids (stabilization fee)	\$25.00/yard
					State Waste Fee	\$6.00/ton
					Box rental per day	\$15.00/day
					Box liners	\$35.00/liner
					Transportation per load	\$350.00/load <sup>1</sup>
Precision	Antifreeze	From repair of mobile equipment	Class 1	25 gallons	drum	\$45.00/55 gal drum
					disposal fee	0.0% <sup>2</sup>
					State Waste Fee	NA
					Transportation Fee	\$275.00/load <sup>1</sup>
Seacat	Filter/Rags/Absorbents	Plant	Non-Haz, Class 1	1 drum	drum	\$45.00/ 55 gal drum
					disposal fee	0.0% <sup>2</sup>
					State Waste Fee	NA
					Transportation Fee	\$275.00/load <sup>1</sup>
Seacat	Dust Collector Filters	Mills	Non-Haz, Class II	1 drum	drum	\$35.00/55 gal drum
					disposal fee	0.0% <sup>2</sup>
					Transportation Fee	\$275.00/load <sup>1</sup>
Seacat	Batteries (ni-cad)	Plant electronic equipment	Universal Waste	1 5-gallon bucket	5-gallon bucket	\$1.65/pound
					disposal fee	0.0% <sup>2</sup>
					Transportation Fee	\$275.00/load
Seacat	Light Bulbs-Flourescent	Plant activities	Universal Waste		8 ft and 4ft bulb	\$1.25/4ft, \$1.50/8ft
					disposal fee	0.0% <sup>2</sup>
					Transportation Fee	\$275.00/load <sup>1</sup>
Seacat	Paint Products	Plant	Universal Waste	5 gallons	drum	\$120.00/55 gal drum <sup>3</sup> (liquid only)
					disposal fee	7.5% <sup>2</sup>
					Transportation Fee	\$275.00/load <sup>1</sup>
Seacat	Used Oil Filters	Plant activities	Used Oil	1 drum	drum	\$35.00/55 gal drum
					disposal fee	0.0% <sup>2</sup>
					Transportation Fee	\$275.00/load <sup>1</sup>
Texas ARAI	Absorbent with oil	Floor dry and sorbent soaked w/ oil	Non-Haz, Class I	1500 lbs	cubic yard (super sack)	\$95.00/supersack
					Box rental per day	\$15.00/day
					Box liners	\$35.00/liner

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Quote for...	Price
Texas ARAI	Phosphate Solids	Phosphate Scale resulting from clean-out of zinc phosphating	Non-Haz, Class I	500 lbs	disposal fee	NA
					State Waste Fee	\$6.00/ton
					Transportation per load	\$275.00/load <sup>1</sup>
					cubic yard (super sack)	\$95.00/supersack
					Box rental per day	\$15.00/day
					Box liners	\$35.00/liner
					disposal fee	0.0% <sup>2</sup>
Texas ARAI	Tin Solids	Tin Sludge resulting from clean-out of tin electrodes and tank	Non-Haz, Class I	100 lbs	State Waste Fee	\$6.00/ton
					Transportation per load	\$275.00/load <sup>1</sup>
					Drum	\$45.00/55 gal drum
					State Waste Fee	NA
Texas ARAI	Spent triethylene glycol	Generated from cleaning of plating baths	Non-haz, Class I	110 gallons	disposal fee	0.0% <sup>2</sup>
					Transportation Fee	\$275.00/load <sup>1</sup>
					tote	\$95.00/tote
					State Waste Fee	NA
Texas ARAI	Used Paint	Generated from paint operations	Universal Waste	55 gallons	disposal fee	0.0% <sup>2</sup>
					Transportation Fee	\$275.00/load <sup>1</sup>
					drum (liquids)	\$120.00/drum
					drum (<50% sludge)	\$155.00/drum
					drum (>50% sludge)	\$245.00/drum3 solids \$0.90/lb non processible solids <sup>3</sup>
					disposal fee	7.5% <sup>2</sup>
Texas ARAI	High pH Paint Water	Generated from stripping couplings and/or paint coated equipment from automated paintline	Hazardous Waste	220 gallons	transportation fee	\$275.00/load <sup>1</sup>
					tote	
					tote (<50% sludge)	
					tote (>50% sludge)	
					disposal fee	\$
Texas ARAI	Bulbs	Plant activities	Universal Waste		transportation fee	\$275.00/load <sup>1</sup>
					8ft and 4ft bulb	\$1.25/4ft, \$1.50/8ft
					disposal fee	0.0% <sup>2</sup>
McCarty	Phosphate Solids	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	transportation fee	\$275.00/load <sup>1</sup>
					drum	\$45 per drum
					cubic yard	\$195 per yard
					State Waste Fee	NA
					disposal fee	0.0% <sup>2</sup>
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean-up around facility	Non-Haz/Class 1	10 55-gallon drums	transportation fee	\$275.00/load <sup>1</sup>
					drum	\$35 per drum
					cubic yard	\$95/supersack
					State Waste Fee	NA
					disposal fee	0.0% <sup>2</sup>
McCarty	Paint Waste	From Stenciling Activites	Universal Waste	55-gallon drum annual	transportation fee	\$275.00/load <sup>1</sup>
					drum (liquids)	\$120.00/drum
					drum (<50% sludge)	\$155.00/drum
					drum (>50% sludge)	\$245.00/drum3 solids
					disposal fee	7.5% <sup>2</sup>
McCarty	Phosphate Rinse Water	Generated from zinc phosphating of pipe threads	Non-Haz/Class 1	8,000 gallons	transportation fee	\$275 per load
					gallon	\$0.08 per gallon <sup>4</sup>
					disposal fee	0.0% <sup>2</sup>
					Transportation per load	\$495 per load
					tanker washout fee	\$145 per washout (if required)

#### Conditions/Exemptions

1. Transortation rate includes one hour loading and unloading. Any additional time will be charged at \$70.00/hour. Transportation rate does not include any applicable fuel surcharges as per the U.S. Department of Energy National Diesel Average. Fuel surcharges are evaluated on a monthly basis. The current surcharge at the time of this bid is 9.5%
  2. Disposal fees/Energy Surcharges vary by disposal facility. The current Energy Surcharge for disposal at CES Environmental is 0.0% at the time of this quote. CES Energy surcharge will be charged according to the national average utility pricing index on all disposal services.
  3. Per unit pricing includes transportation to disposal facility.
  4. Disposal pricing subject to change pending final profile approval and receipt of waste. Treatment and disposal price above includes up to 2% solids; 5,000 ppm TOC; post-treatment metals meeting CES discharge limits. Additional charges may be assessed as follows:
    - o \$0.03 per gallon for each additional 5,000 TOC
    - o \$0.01 per gallon for each additional percentage solids
    - o \$0.10 per gallon for heat treatment, specialty processing and/or metals in excess of post-treatment discharge limits
  5. A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.
- \*\*\*All disposal pricing is subject to change pending final profile approval and receipt of waste.

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Unit of Measure	Price	Annual Price
McCarty	Paint Waste	From Stenciling Activities	Universal	1 55-gallon drum annually	Drums	they don't have any?? I guess the rate sheet: \$120/dm liquids, \$155/dm sludges, \$245/dm solids, \$0.95/lb non-processible solids	
McCarty	Sandblast grit		Non haz/Class 1	1 CY box	CY Box	\$125/CY sack	
McCarty	Non Haz Grease		Non haz/Class 1	1 drum	Drums	\$55/dm	
McCarty	TPH Impacted Soil		Non haz/Class 1	2 drums	Drums	\$45/dm	
McCarty	Used Oil		Recycle	2 drums	Drums	\$30/dm	
McCarty	Batteries		Universal	1 CY Sack	CY Sack	\$150/CY sack	
McCarty	Flourescent Lights		Universal	1 - Box	ea	\$1.25	
McCarty	Pipe Thread Protectors		Non haz/Class 1	Roll off	CY	\$50/yard	

1. Disposal pricing subject to change pending final profile approval and receipt of waste. A sample and analytical testing may be required to properly classify the waste. Treatment and disposal price above includes up to 2% solids and 5,000 ppm TOC.

Additional charges may be assessed as follows:

o \$0.03 per gallon for each additional 5,000 TOC

o \$0.01 per gallon for each additional percentage solids

o \$0.07 per gallon for heat treatment and/or specialty processing

2. Pricing base on solids. Surcharges will apply for sludges or liquids

3. Payment valid for oil with <0.5% water. If water content is greater, CES will charge \$35.00/drum

4. Payment valid for oil with <0.5% water. If water content is greater, a CES will charge.

Transportation rate at \$70 per hour plus fuel surcharge.

• All equipment utilizing motor fuel is subject to a 4 hour minimum and fuel surcharge based on the current market price of motor fuel. As of the date of this proposal, the current fuel surcharge rate is 9.5%.

• An energy recovery fee will be assessed on all disposal based on the current US Department of Labor Producer Price index and Labor for fuels. As of the date of this proposal, the energy recovery fee is 0.0%. A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.

these were not included in their request, but they do ship this regularly

<i>Facility</i>	<i>Waste stream</i>	<i>Generating Process</i>	<i>Waste Classification</i>	<i>Quantity Generated Monthly(unless stated otherwise)</i>	<i>Unit of Measure</i>	<i>Price</i>	<i>Annual Price</i>	
Conroe	Oily Rags, Soil, and Plastic	Plant Operations	Non-haz, Class I	30,000 lbs	lbs	\$0.04/lb <sup>2</sup>		solid or liquid
Conroe	Water-based Pipe Coating	Coating Operation	Non-haz, Class I	1800 lbs	lbs	\$0.04/lb <sup>2</sup>		
Conroe	Paint Related Material	Paint Operations	Universal Waste	800 lbs	lbs	\$0.88/lb		
Conroe	Used Oil/Oily Water	Plant Operation	Used oil	1540 gallons	Gal	\$0.08/gallon <sup>1</sup>		
Conroe	Used Coolant	ATL Building	Non-Haz	10 drums	Drums	\$45.00/drum		
Conroe	Mill Coolant	From cleanout of pits	Non-Haz	4000 gallons quarterly	Gal	\$0.25/gallon		
Precision	Synthetic coolant diluted with water 95% (20:1)	Generated from cooling of coils	Non-Haz, Class I	1,850 gallons	Gal	\$0.25/gallon		
Precision	Hydroblast wastewater	Generated from hydrotesting of coils	Non-Haz, Class I	20,000 gallons	Gal	\$0.08/gallon <sup>1</sup>		
Precision	Paint		Universal Waste	25 gallons	Gal			
Precision	Bulbs		Universal Waste		Gal	\$1.25/4ft bulb \$1.50/8ft bulb		
Precision	Used Oil	Generated from machines.	Used oil	110 gallons	Drums	Pay \$10.00/drum <sup>3</sup>		
Precision	Adsorbent w/ oil	Generated from clean-up around facility	Non-Haz, Class I	15 drums	Drums	\$45.00/drum		
Precision	Parts Cleaner Solvent	Parts Cleaning	Hazardous	25 gallons	Gal			per drum?
Precision	Antifreeze	From repair of mobile equipment	Class 1	25 gallons	Gal	\$0.25/gallon		per drum?
Seacat	Waste Water #1	Mill coolant/Fixer/developer	Non-Haz	2000 gallons	Gal	\$0.08/gallon <sup>1</sup>		HAZ???
Seacat	Waste Water #3	Hydrotest Waster	Non-Haz	2000 gallons	Gal	\$0.08/gallon <sup>1</sup>		Silver
Seacat	Filter/Rags/Absorbents	Plant	Non-Haz, Class 1	1 drum	Drums	\$45.00/drum		
Seacat	Dust Collector Filters	Mills	Non-Haz, Class II	1 drum	Drums	\$30.00/drum		
Seacat	Batteries	Plant electronic equipment	Universal Waste	1 5-gallon bucket	Gal			per lb?
Seacat	Light Bulbs-Flourescent	Plant activities	Universal Waste			\$1.25/4ft bulb \$1.50/8ft bulb		
Seacat	Paint Products	Plant	Universal Waste	5 gallons	Gal			per drum?
Seacat	Waste Oil & Filters	Hydraulic oil/Compressor oil/Forklift Oil	Used oil	1 drum	Drums	\$35.00/drum		
Texas ARAI	Process Wastewater	Zn/Mg Phos and Tin/Zn Electroplating	Non-Haz, Class I	20,000 gallons	Gal	\$0.08/gallon <sup>1</sup>		
Texas ARAI	Absorbent with oil	Floor dry and sorbent soaked w/ oil	Non-Haz, Class I	1500 lbs	lbs	\$0.04/lb <sup>2</sup>		

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Unit of Measure	Price	Annual Price
Texas ARAI	Phosphate Sludge	Phosphate Scale resulting from clean-out of zinc phosphating	Non-Haz, Class I	500 lbs	lbs	\$40/drum dry \$50.00/drum wet	
Texas ARAI	Tin Sludge	Tin Sludge resulting from clean-out of tin electrodes and tank	Non-Haz, Class I	100 lbs	lbs	\$0.06/lb <sup>2</sup>	
Texas ARAI	Spent triethylene glycol	Generated from cleaning of plating baths	Non-haz, Class I	110 gallons	Gal	\$0.25/gallon	
Texas ARAI	Used Paint/Bulbs	Generated from paint operations, forklift batteries, and changing bulbs	Universal Waste	25 gallons	Gal	\$120/dm liquids, \$155/dm sludges, \$245/dm solids, \$0.95/lb non- processable solids \$1.25/4ft bulb \$1.50/8ft bulb	
Texas ARAI	Paint Wastewater/Sludge	Generated from paint waterwash booth, and stripping of parts	Universal Waste	165 gallons	Gal		
Texas ARAI	Used Oil	Clean-out of machines and forklift	Used Oil	330 gallons	Gal	Pay \$0.20/gallon	
McCarty	Rinse water from zinc phosphate lines	Generated from Zinc Phosphating of pipe threads	Non-Haz / Class 1	8,000 gallons	Gal	\$0.08/gal <sup>1</sup>	
McCarty	Phosphate Sludge	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	Drums	\$40/ drum dry \$50/dm wet	
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean-up around facility	Non-Haz/Class 1	10 55-gallon drums	Drums	\$45/dm	
McCarty	Used Oil/Oily Water/Coolant	From Oil/Water Separators and tanks around facility and sumps from inside buildings	Non-Haz/Class 1	3,000 gallons	Gal	\$0.08/gal <sup>1</sup>	

paint vs bulbs

bulk?

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Quote for...	Price
Conroe	Oily Rags, Soil, and Plastic	Plant Operations	Non-haz, Class I	30,000 lbs	20 yd roll-off box	\$500
					Any addl' fee for free liquids (stabilization fee)	
					State Waste Fee	
					Box rental per day	
					Box liners	
					Transportation per load	
Conroe	Water-based Pipe Coating	Coating Operation	Non-haz, Class I	1800 lbs	tote	
					State Waste Fee	
					Transportation per load	
Conroe	Paint Related Material	Paint Operations	Universal Waste	800 lbs	5- gallon buckets (liquids)	
					drums (liquid)	
					5- gallon buckets (solids)	
					drums (solids)	
					disposal fee	
					Transportation Fee	
Precision	Paint	Stenciling Operations	Universal Waste	25 gallons	drums (liquid)	
					disposal fee	
					transportation fee	
Precision	Bulbs	Plant Activities	Universal Waste		8 ft and 4ft bulb	
					disposal fee	
					Transportation Fee	
Precision	Adsorbent w/ oil	Generated from clean-up around facility	Non-Haz, Class I	15 drums	20 yd roll-off box	
					cubic yard (super sack)	
					drum	
					Any addl' fee for free liquids (stabilization fee)	
					State Waste Fee	
					Box rental per day	
					Box liners	
					Transportation per load	
Precision	Antifreeze	From repair of mobile equipment	Class 1	25 gallons	drum	
					disposal fee	
					State Waste Fee	
					Transportation Fee	
Seacat	Filter/Rags/Absorbents	Plant	Non-Haz, Class 1	1 drum	drum	
					disposal fee	
					State Waste Fee	
					Transportation Fee	
Seacat	Dust Collector Filters	Mills	Non-Haz, Class II	1 drum	drum	
					disposal fee	
					Transportation Fee	
Seacat	Batteries (ni-cad)	Plant electronic equipment	Universal Waste	1 5-gallon bucket	5-gallon bucket	
					disposal fee	
					Transportation Fee	
Seacat	Light Bulbs-Flourescent	Plant activities	Universal Waste		8 ft and 4ft bulb	
					disposal fee	
					Transportation Fee	
Seacat	Paint Products	Plant	Universal Waste	5 gallons	drum	
					disposal fee	
					Transportation Fee	
Seacat	Used Oil Filters	Plant activities	Used Oil	1 drum	drum	
					disposal fee	
					Transportation Fee	
Texas ARAI	Absorbent with oil	Floor dry and sorbent soaked w/ oil	Non-Haz, Class I	1500 lbs	cubic yard (super sack)	
					Box rental per day	
					Box liners	
					disposal fee	
					State Waste Fee	
					Transportation per load	
Texas	Phosphate Solids	Phosphate Scale	Non-Haz, Class I	500 lbs	cubic yard (super sack)	

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Quote for...	Price
ARAI		resulting from clean-out of zinc phosphating			Box rental per day	
					Box liners	
					disposal fee	
					State Waste Fee	
					Transportation per load	
Texas ARAI	Tin Solids	Tin Sludge resulting from clean-out of tin electrodes and tank	Non-Haz, Class I	100 lbs	Drum	
					State Waste Fee	
					disposal fee	
					Transportation Fee	
Texas ARAI	Spent triethylene glycol	Generated from cleaning of plating baths	Non-haz, Class I	110 gallons	tote	
					State Waste Fee	
					disposal fee	
					Transportation Fee	
Texas ARAI	Used Paint	Generated from paint operations	Universal Waste	55 gallons	drum (liquids)	
					drum (<50% sludge)	
					drum (>50% sludge)	
					disposal fee	
					transportation fee	
Texas ARAI	High pH Paint Water	Generated from stripping couplings and/or paint coated equipment from automated paintline	Hazardous Waste	220 gallons	tote	
					tote (<50% sludge)	
					tote (>50% sludge)	
					disposal fee	
					transportation fee	
Texas ARAI	Bulbs	Plant activities	Universal Waste		8ft and 4ft bulb	
					disposal fee	
					transportation fee	
McCarty	Phosphate Solids	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	drum	
					cubic yard	
					State Waste Fee	
					disposal fee	
					transportation fee	
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean- up around facility	Non-Haz/Class 1	10 55-gallon drums	drum	
					cubic yard	
					State Waste Fee	
					disposal fee	
					transportation fee	
McCarty	Paint Waste	From Stenciling Activites	Universal Waste	55-gallon drum annual	drum	
					disposal fee	
					transportation fee	
McCarty	Phosphate Rinse Water	Generated from zinc phosphating of pipe threads	Non-Haz/Class 1	8,000 gallons	gallon	
					disposal fee	
					Transportation per load	
					tanker washout fee	

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Unit of Measure	Price
McCarty	Rinse water from zinc phosphate lines	Generated from Zinc Phosphating of pipe threads	Non-Haz / Class 1	8,000 gallons	Gal	\$0.10/gal*
McCarty	Phosphate Sludge	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	Drums	\$40/ drum dry \$50/dm wet
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean-up around facility	Non-Haz/Class 1	10 55-gallon drums	Drums	\$50/dm
McCarty	Used Oil/Oily Water/Coolant	From Oil/Water Separators and tanks around facility and sumps from inside buildings	Non-Haz/Class 1	3,000 gallons	Gal	\$0.10/gal*
McCarty	Paint Waste	From Stenciling Activities	Universal	1 55-gallon drum annually	Drums	they don't have any?? I gue \$245/dm solids, \$0.95/lb noi
McCarty	Sandblast grit		Non haz/Class 1	1 CY box	CY Box	\$125/CY sack
McCarty	Non Haz Grease		Non haz/Class 1	1 drum	Drums	\$55/dm
McCarty	TPH Impacted Soil		Non haz/Class 1	2 drums	Drums	\$45/dm
McCarty	Used Oil		Recycle	2 drums	Drums	\$30/dm
McCarty	Batteries ✓		Universal	1 CY Sack	CY Sack	\$150/CY sack
McCarty	Flourescent Lights ✓		Universal	1 - Box	ea	\$1.25
McCarty	Pipe Thread Protectors		Non haz/Class 1	Roll off	CY	\$50/yard

\*Disposal pricing subject to change pending final profile approval and receipt of waste. Treatment and disposal price above includes up to 2% solids and 5,000 ppm TOC. Additional charges may be assessed as follows:

- o \$0.03 per gallon for each additional 5,000 TOC
- o \$0.01 per gallon for each additional percentage solids
- o \$0.07 per gallon for heat treatment and/or specialty processing

Transportation rate at \$70 per hour plus fuel surcharge.

- All equipment utilizing motor fuel is subject to a 4 hour minimum and fuel surcharge based on the current market price of motor fuel. As of the date of this proposal, the current fuel surcharge rate is 9.5%.
- An energy recovery fee will be assessed on all disposal based on the current US Department of Labor Producer Price index and Labor for fuels. As of the date of this proposal, the energy recovery fee is 0.0%. A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.

Annual Price

ess the rate sheet: \$120/dm liquids, \$155/dm sludges,  
n-processible solids

	these were not included in their request, but they do ship this regularly

Quantity	Unit	Waste	Waste Classification	CES Proposed Management	Disposal Cost per Unit of Measure	Tranpsortation Cost*
2	drums	Waste Diesel	Hazardous	Recycle	\$45.00/drum	\$550.00/load
7	drums	Ethylene glycol/water mix	Nonhaz	Recycle	\$45.00/drum	\$550.00/load
1	drums	Telesis Waste (paint)	Hazardous	Dispose	\$100.00/drum (liquid)	\$550.00/load
4	drums	Oil Water Mix	Nonhaz	Recycle	\$45.00/drum	\$550.00/load
8	drums	Hocut Coolant	Nonhaz	Recycle	\$45.00/drum	\$550.00/load
13	drums	Ethylene glycol	Nonhaz	Recycle	\$45.00/drum	\$550.00/load
1	drums	Liquichlor***	Hazardous	Product	\$150.00/drum	\$550.00/load
4	drums	Unknown	Pending			\$550.00/load
1	30 gallon drum	Kerosene	Hazardous	Recycle	\$35.00/drum	\$550.00/load
56	5-gallon cans	Paint**	Hazardous	Dispose-NON HAZ	\$175.00/pallet (10/pallet)	\$550.00/load

#### Terms/Conditions/Explanations

\* Transporatation cost is per load. Approximately 90 55 gallon drums can be on one load. Therefore, it should only be one load.

\*\* The MSDS given to me indicated the 5 gallon cans of paint are a latex paint. Therefore, they can be disposed of as non hazardous.

\*\*\* We can bring the liquichlor in as a product provided it is unused.

The diesel, glycol and water mix, oily water, ethylene glycol, and kerosene can all be brought in as recyclable materials. We have a recycle programs for hydrocarbon wastes such as these.

All prices contingent upon profile approval.

Transporation cost includes 2 hours of loading and the fuel surcharge.

all trans per load

Conroe	Oily Rags, Soil, and Plastic	Plant Operations	Non-haz, Class I	30,000 lbs	20 yd roll-off box	
					Any addl' fee for free liquids (stabilization fee)	
					State Waste Fee	
					Box rental per day	
					Box liners	
					Transportation per load	
Conroe	Water-based Pipe Coating	Coating Operation	Non-haz, Class I	1800 lbs	tote	
					State Waste Fee	
					Transportation per load	
Conroe	Paint Related Material	Paint Operations	Universal Waste	800 lbs	5- gallon buckets (liquids)	
					drums (liquid)	
					5- gallon buckets (solids)	
					drums (solids)	
					disposal fee	
					Transportation Fee	
Precision	Paint	Stenciling Operations	Universal Waste	25 gallons	drums (liquid)	
					disposal fee	
					transportation fee	
Precision	Bulbs	Plant Activities	Universal Waste		8 ft and 4ft bulb	
					disposal fee	
					Transportation Fee	
Precision	Adsorbent w/ oil	Generated from clean-up around facility	Non-Haz, Class I	15 drums	20 yd roll-off box	
					cubic yard (super sack)	
					drum	
					Any addl' fee for free liquids (stabilization fee)	
					State Waste Fee	
					Box rental per day	
					Box liners	
					Transportation per load	
Precision	Antifreeze	From repair of mobile equipment	Class I	25 gallons	drum	
					disposal fee	
					State Waste Fee	
					Transportation Fee	
Seacat	Filter/Rags/Absorbents	Plant	Non-Haz, Class I	1 drum	drum	
					disposal fee	
					State Waste Fee	
					Transportation Fee	
Seacat	Dust Collector Filters	Mills	Non-Haz, Class II	1 drum	drum	
					disposal fee	
					Transportation Fee	
Seacat	Batteries (ni-cad)	Plant electronic equipment	Universal Waste	1 5-gallon bucket	5-gallon bucket	
					disposal fee	
					Transportation Fee	
Seacat	Light Bulbs-Flourescent	Plant activities	Universal Waste		8 ft and 4ft bulb	
					disposal fee	
					Transportation Fee	
Seacat	Paint Products	Plant	Universal Waste	5 gallons	drum	
					disposal fee	
					Transportation Fee	
Seacat	Used Oil Filters	Plant activities	Used Oil	1 drum	drum	
					disposal fee	
					Transportation Fee	
Texas ARAI	Absorbent with oil	Floor dry and sorbent soaked w/ oil	Non-Haz, Class I	1500 lbs	cubic yard (super sack)	
					Box rental per day	
					Box liners	
					disposal fee	
					State Waste Fee	
					Transportation per load	
Texas	Phosphate Solids	Phosphate Scale	Non-Haz, Class I	500 lbs	cubic yard (super sack)	

EPAHO082001278

liquid wastes to LES

Fuel surcharge may be based on fuel index

ARAI					Box rental per day	
resulting from clean-out of zinc phosphating					Box liners	
					disposal fee	
					State Waste Fee	
					Transportation per load	
Texas	Tin Solids	Tin Sludge resulting from clean-out of tin electrodes and tank	Non-Haz, Class I	100 lbs	Drum	
ARAI					State Waste Fee	
					disposal fee	
					Transportation Fee	
Texas	Spent triethylene glycol	Generated from cleaning of plating baths	Non-haz, Class I	110 gallons	tote	
ARAI					State Waste Fee	
					disposal fee	
					Transportation Fee	
Texas	Used Paint	Generated from paint operations	Universal Waste	55 gallons	drum (liquids)	
ARAI					drum (<50% sludge)	
					drum (>50% sludge)	
					disposal fee	
					transportation fee	
Texas	High pH Paint Water	Generated from stripping couplings and/or paint coated equipment from automated paintline	Hazardous Waste	220 gallons	tote	
ARAI					tote (<50% sludge)	
					tote (>50% sludge)	
					disposal fee	
					transportation fee	
Texas	Bulbs	Plant activities	Universal Waste		8ft and 4ft bulb	
ARAI					disposal fee	
					transportation fee	
McCarty	Phosphate Solids	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	drum	
					cubic yard	
					State Waste Fee	
					disposal fee	
					transportation fee	
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean-up around facility	Non-Haz/Class 1	10 55-gallon drums	drum	
					cubic yard	
					State Waste Fee	
					disposal fee	
					transportation fee	
McCarty	Paint Waste	From Stenciling Activites	Universal Waste	55-gallon drum annual	drum	
					disposal fee	
					transportation fee	
McCarty	Phosphate Rinse Water	Generated from zinc phosphating of pipe threads	Non-Haz/Class 1	8,000 gallons	gallon	
					disposal fee	
					Transportation per load	
					tanker washout fee	

Conroe	Oil, Rags, Soil, and Plastic	Plant Operations	Non-haz, Class I	30,000 lbs ?	lbs		
Conroe	Water-based Pipe Coating	Coating Operation	Non-haz, Class I	1800 lbs ?	lbs		
Conroe	Paint Related Material	Paint Operations	Universal Waste	800 lbs	lbs	\$0.85/lb	
Conroe	Used Oil/Oily Water	Plant Operation	Used oil	1540 gallons	Gal	.10/gal	
Conroe	Used Coolant	ATL Building	Non-Haz	10 drums	Drums	\$42.5/dm	
Conroe	Mill Coolant	From cleanout of pits	Non-Haz	4000 gallons quarterly	Gal	.25/gal	
Precision	Synthetic coolant diluted with water 95% (20:1)	Generated from cooling of coils	Non-Haz, Class I	1,850 gallons	Gal	.25/gal	
Precision	Hydroblast wastewater	Generated from hydrotesting of coils	Non-Haz, Class I	20,000 gallons	Gal	.10/gal	
Precision	Paint		Universal Waste	25 gallons ?	Gal		
Precision	Bulbs		Universal Waste		Gal	1.50/ea	
Precision	Used Oil	Generated from machines.	Used oil	110 gallons	Drums	35/dm	
Precision	Adsorbent w/ oil	Generated from clean-up around facility	Non-Haz, Class I	15 drums	Drums		
Precision	Parts Cleaner Solvent	Parts Cleaning	Hazardous	25 gallons	Gal /dm	?	
Precision	Antifreeze	From repair of mobile equipment	Class 1	25 gallons	Gal	.25/gal	
Seacat	Waste Water #1	Mill coolant/Fixer/developer	Non-Haz	2000 gallons	Gal	.	
Seacat	Waste Water #3	Hydrotest Waster	Non-Haz	2000 gallons	Gal	.10/gal	
Seacat	Filter/Rags/Absorbents	Plant	Non-Haz, Class 1	1 drum	Drums	\$42.50	
Seacat	Dust Collector Filters	Mills	Non-Haz, Class II	1 drum	Drums	\$38/dm	
Seacat	Batteries	Plant electronic equipment	Universal Waste	1 5-gallon bucket	Gal (4b?)		
Seacat	Light Bulbs-Flourescent	Plant activities	Universal Waste			1.25/ea/104	
Seacat	Paint Products	Plant	Universal Waste	5 gallons	Gal	?	
Seacat	Waste Oil & Filters	Hydraulic oil/Compressor oil/Forklift Oil	Used oil	1 drum	Drums	\$35/dm	
Texas ARAI	Process Wastewater	Zn/Mg Phos and Tin/Zn Electroplating	Non-Haz, Class I	20,000 gallons	Gal	.25/gal	
Texas ARAI	Absorbent with oil	Floor dry and sorbent soaked w/ oil	Non-Haz, Class I	1500 lbs	lbs	bulk?	

Texas ARAI	Phosphate Sludge	Phosphate Scale resulting from clean-out of zinc phosphating	Non-Haz, Class I	500 lbs	lbs		
Texas ARAI	Tin Sludge	Tin Sludge resulting from clean-out of tin electrodes and tank	Non-Haz, Class I	100 lbs	lbs		
Texas ARAI	Spent triethylene glycol	Generated from cleaning of plating baths	Non-haz, Class I	110 gallons	Gal	0.251 gal	
Texas ARAI	Used Paint/Bulbs	Generated from paint operations, forklift batteries, and changing bulbs	Universal Waste	25 gallons	Gal		
Texas ARAI	Paint Wastewater/Sludge	Generated from paint waterwash booth, and stripping of parts	Universal Waste	165 gallons	Gal		
Texas ARAI	Used Oil	Clean-out of machines and forklift	Used Oil	330 gallons	Gal		
McCarty	Rinse water from zinc phosphate lines	Generated from Zinc Phosphating of pipe threads	Non-Haz / Class 1	8,000 gallons	Gal		
McCarty	Phosphate Sludge	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	Drums		
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean-up around facility	Non-Haz/Class 1	10 55-gallon drums	Drums		
McCarty	Used Oil/Oily Water/Coolant	From Oil/Water Separators and tanks around facility and sumps from inside buildings	Non-Haz/Class 1	3,000 gallons	Gal		
McCarty	Paint Waste	From Stenciling Activities	Universal	1 55-gallon drum annually	Drums		

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Unit of Measure	Price	Annual Price
Conroe	Oily Rags, Soil, and Plastic	Plant Operations	Non-haz, Class I	30,000 lbs	lbs	\$0.40/lb	
Conroe	Water-based Pipe Coating	Coating Operation	Non-haz, Class I	1800 lbs	lbs		
Conroe	Paint Related Material	Paint Operations	Universal Waste	800 lbs	lbs	\$0.88/lb	
Conroe	Used Oil/Oily Water	Plant Operation	Used oil	1540 gallons	Gal	\$0.10/gallon*	
Conroe	Used Coolant	ATL Building	Non-Haz	10 drums	Drums	\$45.00/drum	
Conroe	Mill Coolant	From cleanout of pits	Non-Haz	4000 gallons quarterly	Gal	\$0.25/gallon	
Precision	Synthetic coolant diluted with water 95% (20:1)	Generated from cooling of coils	Non-Haz, Class I	1,850 gallons	Gal	\$0.25/gallon	
Precision	Hydroblast wastewater	Generated from hydrotesting of coils	Non-Haz, Class I	20,000 gallons	Gal	\$0.10/gallon*	
Precision	Paint		Universal Waste	25 gallons	Gal		
Precision	Bulbs		Universal Waste		Gal	\$1.25/4ft bulb \$1.50/8ft bulb	
Precision	Used Oil	Generated from machines.	Used oil	110 gallons	Drums	\$35.00/drum	
Precision	Adsorbent w/ oil	Generated from clean-up around facility	Non-Haz, Class I	15 drums	Drums	\$45.00/drum	
Precision	Parts Cleaner Solvent	Parts Cleaning	Hazardous	25 gallons	Gal		
Precision	Antifreeze	From repair of mobile equipment	Class I	25 gallons	Gal		
Seacat	Waste Water #1	Mill coolant/Fixer/developer	Non-Haz	2000 gallons	Gal	\$0.10/gallon*	
Seacat	Waste Water #3	Hydrotest Waster	Non-Haz	2000 gallons	Gal	\$0.10/gallon*	
Seacat	Filter/Rags/Absorbents	Plant	Non-Haz, Class I	1 drum	Drums	\$45.00/drum	
Seacat	Dust Collector Filters	Mills	Non-Haz, Class II	1 drum	Drums	\$30.00/drum	
Seacat	Batteries	Plant electronic equipment	Universal Waste	1 5-gallon bucket	Gal		
Seacat	Light Bulbs-Flourescent	Plant activities	Universal Waste			\$1.25/4ft bulb \$1.50/8ft bulb	
Seacat	Paint Products	Plant	Universal Waste	5 gallons	Gal		
Seacat	Waste Oil & Filters	Hydraulic oil/Compressor oil/Forklift Oil	Used oil	1 drum	Drums	\$35.00/drum	
Texas ARAI	Process Wastewater	Zn/Mg Phos and Tin/Zn Electroplating	Non-Haz, Class I	20,000 gallons	Gal	\$0.10/gallon*	

.03-.04/lb  
This can be much lower \*suppose for liquid  
solid or liquid  
Put with higher price on asterisk  
offer to pay .15/gal. w/ \* stipulations  
Same as part from above w/ low base with \* surcharge  
Does not include boxes  
pay \$10/dm w/ \*  
per drum?  
per drum?  
HAZ???  
Silver  
per lb?  
per drum?

<i>Facility</i>	<i>Waste stream</i>	<i>Generating Process</i>	<i>Waste Classification</i>	<i>Quantity Generated Monthly(unless stated otherwise)</i>	<i>Unit of Measure</i>	<i>Price</i>	<i>Annual Price</i>
Texas ARAI	Absorbent with oil	Floor dry and sorbent soaked w/ oil	Non-Haz, Class I	1500 lbs	lbs	\$0.38/lb	
Texas ARAI	Phosphate Sludge	Phosphate Scale resulting from clean-out of zinc phosphating	Non-Haz, Class I	500 lbs	lbs	\$40/drum dry \$50.00/drum wet	
Texas ARAI	Tin Sludge	Tin Sludge resulting from clean-out of tin electrodes and tank	Non-Haz, Class I	100 lbs	lbs	\$0.42/lb	
Texas ARAI	Spent triethylene glycol	Generated from cleaning of plating baths	Non-haz, Class I	110 gallons	Gal	\$0.10/gallon*	
Texas ARAI	Used Paint/Bulbs	Generated from paint operations, forklift batteries, and changing bulbs	Universal Waste	25 gallons	Gal		
Texas ARAI	Paint Wastewater/Sludge	Generated from paint waterwash booth, and stripping of parts	Universal Waste	165 gallons	Gal		
Texas ARAI	Used Oil	Clean-out of machines and forklift	Used Oil	330 gallons	Gal	\$0.10/gallon*	
McCarty	Rinse water from zinc phosphate lines	Generated from Zinc Phosphating of pipe threads	Non-Haz / Class 1	8,000 gallons	Gal	\$0.10/gal*	
McCarty	Phosphate Sludge	Generated from cleaning of phosphate tanks	Non-Haz / Class 1	7 55-gallon drums	Drums	\$40/ drum dry \$50/dm wet	
McCarty	Oily Rags/Adsorbent/Filters	Generated from clean-up around facility	Non-Haz/Class 1	10 55-gallon drums	Drums	\$45/dm	
McCarty	Used Oil/Oily Water/Coolant	From Oil/Water Separators and tanks around facility and sumps from inside buildings	Non-Haz/Class 1	3,000 gallons	Gal	\$0.10/gal*	

paint vs bulbs

bulk?

Facility	Waste stream	Generating Process	Waste Classification	Quantity Generated Monthly(unless stated otherwise)	Unit of Measure	Price	Annual Price
McCarty	Paint Waste	From Stenciling Activities	Universal	1 55-gallon drum annually	Drums	they don't have any?? I guess the rate sheet: \$120/dm liquids, \$155/dm sludges, \$245/dm solids, \$0.95/lb non- processable solids	
McCarty	Sandblast grit		Non haz/Class 1	1 CY box	CY Box	\$125/CY sack	
McCarty	Non Haz Grease		Non haz/Class 1	1 drum	Drums	\$55/dm	
McCarty	TPH Impacted Soil		Non haz/Class 1	2 drums	Drums	\$45/dm	
McCarty	Used Oil		Recycle	2 drums	Drums	\$30/dm	
McCarty	Batteries		Universal	1 CY Sack	CY Sack	\$150/CY sack	
McCarty	Flourescent Lights		Universal	1 - Box	ea	\$1.25	
McCarty	Pipe Thread Protectors		Non haz/Class 1	Roll off	CY	\$50/yard	

\*Disposal pricing subject to change pending final profile approval and receipt of waste. A sample and analytical testing may be required to properly classify the waste. Treatment and disposal price above includes up to 2% solids and 5,000 ppm TOC.

Additional charges may be assessed as follows:

- o \$0.03 per gallon for each additional 5,000 TOC
- o \$0.01 per gallon for each additional percentage solids
- o \$0.07 per gallon for heat treatment and/or specialty processing

Transportation rate at \$70 per hour plus fuel surcharge.

- All equipment utilizing motor fuel is subject to a 4 hour minimum and fuel surcharge based on the current market price of motor fuel. As of the date of this proposal, the current fuel surcharge rate is 9.5%.
- An energy recovery fee will be assessed on all disposal based on the current US Department of Labor Producer Price index and Labor for fuels. As of the date of this proposal, the energy recovery fee is 0.0%. A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.

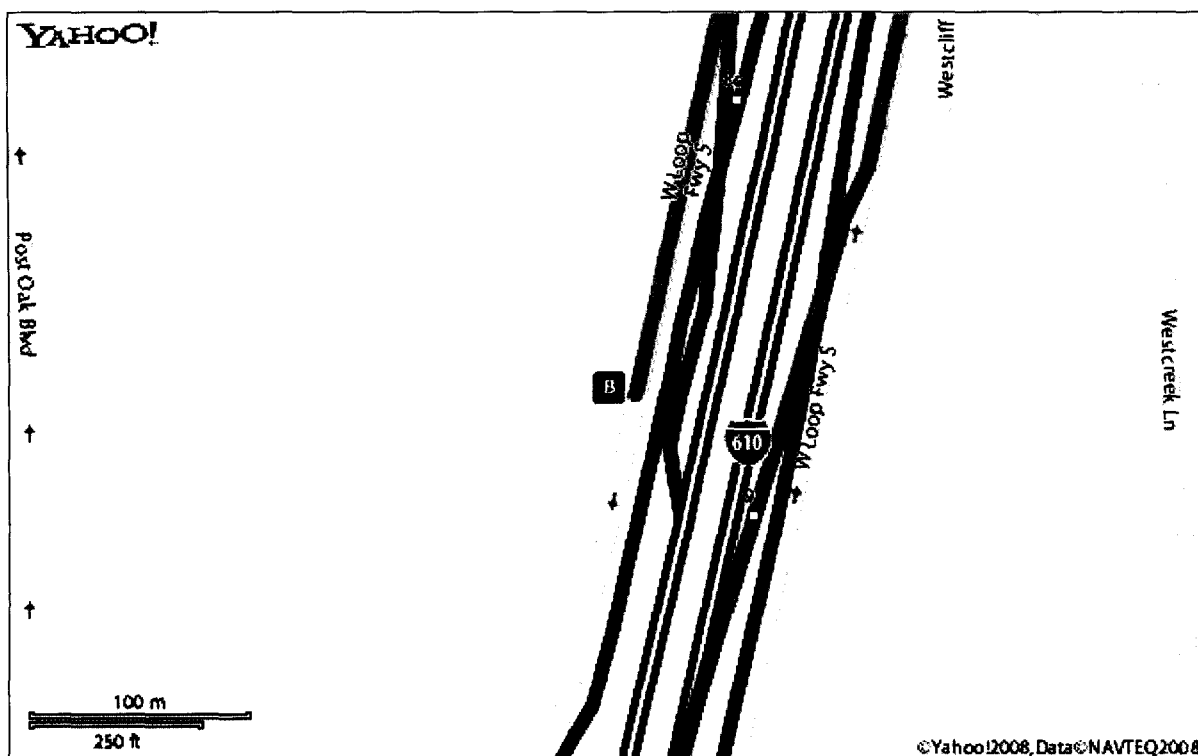
these were not included in their request, but they do ship this regularly

**Directions to 2200 West Loop S, Houston, TX 77027-3502****YAHOO! LOCAL**  
Maps

Total Time: 17 mins, Total Distance: 13.22 mi

	Distance
<b>A</b> 1. Start at 4904 GRIGGS RD, HOUSTON going toward CAROL LN	go 0.34 mi
2. Turn <b>R</b> on MARTIN LUTHER KING JR BLVD	go 0.8 mi
3. Bear <b>R</b> on S LOOP FWY E	go 0.64 mi
4. Take <b>L</b> ramp onto I-610 W	go 6.89 mi
5. Continue on I-610 N	go 3.99 mi
6. Take exit #9/SAN FELIPE ST/POST OAK BLVD onto W LOOP FWY S	go 0.31 mi
7. Make a U-Turn on W LOOP FWY S	go 0.25 mi
<b>B</b> 8. Arrive at 2200 WEST LOOP S, HOUSTON, on the <b>R</b>	

Time: 17 mins, Distance: 13.22 mi



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

- T.T. Barge (T.T. Barge Mile 237)  
- Hydrocarbon & Water

Quoted 6.8.09



**CES Environmental  
Services, Inc.**

4904 Griggs Road  
Houston, TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1676

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**June 8, 2009**

**T.T. Barge Mile 237  
Attn: Jeff Babin  
5190 North River Road  
Port Allen, LA 70767**

RE: Transportation and recycling costs for hydrocarbons and water

**Dear Mr. Babin,**

CES Environmental Services, Inc. appreciates the opportunity to present to you our proposal for the transportation and recycling of hydrocarbons and water from your barge cleaning operations. Please find below our proposed scope of service and associated pricing for your consideration.

**Scope of Service**

- CES will assist the generator in creating a profile for the recyclable water.
- Transportation will occur in two ways. One option is for CES to provide a driver and vacuum trailer to pump out the water from your facility. The second option is for TT Barge to send a barge to our sister company, PACES, in Port Arthur. CES will then pump the water off the barge and truck it to CES Houston for recycling.
- The water will be brought to CES, hydrocarbons reclaimed, water phase treated, and discharged to the City of Houston WWTP under permit.
- CES will provide all proper shipping documents.

**Estimated Costs (Barge Option)**

- |   |               |
|---|---------------|
| ▪ Transportation FOB via Barge then transported to Houston: | \$0.08/gallon |
| ▪ Recycling Fee:  | \$0.12/gallon |

**Estimated Costs (Small Batches Option)**

- |                            |                |
|----------------------------|----------------|
| ▪ Transportation Services: | \$ 900.00/load |
| ▪ Recycling Fee:           | \$ 0.12/gallon |

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EPAHO082001288



4904 Griggs Road  
Houston, TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1676

**Conditions/Assumptions:**

1. A profile must be approved prior to scheduling any disposal. Profile must be given at least 72 hours for approval.
2. An analysis may need to be run in order to properly classify the waste.
3. The recycling rate is valid up to 10,000 TOC. Any additional TOC will be charged at \$0.03/gal/5,000 TOC greater than 10,000 TOC.
4. The recycling rate is valid for up to 3% solids. Any additional solids will be charged at \$0.01/gal/1% greater than 3% solids.
5. Amount of oil allowed is unlimited.
6. Expected turnaround for barge is 10 days.
7. Cancellations must be given 24 hours in advance. If 24 hours notice is not given, a fee will be charged.
8. Transportation rate includes one hour free loading and unloading. Any additional loading time will be charged at \$70.00/hour.
9. Transportation rate does not include any applicable fuel surcharges as per the U.S. Department of Energy National Diesel Average. Fuel surcharges are evaluated on a monthly basis. The current rate for June 2009 is 9.5%
10. Energy surcharge will be charged according to the national average utility pricing index on all disposal services. At the time of this quote, the energy surcharge is 0.0%. Rate is subject to change on a monthly basis.
11. A 1% Compliance surcharge will be charged in order to stay compliant with federal and state government requirements. This surcharge is applied against the entire invoice (including other surcharges and direct fees).

Thank you again for the opportunity and your interest in CES Environmental Services, Inc. If you have any questions or need additional assistance, feel free to contact me at (713) 748-9804.

Sincerely,  
Dana R. Carter  
Account Manager

Dana-  
your copy  
for folder

# Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 09030475



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :

TT Barge Mile 237

Report To : Client Name: CES Environmental  
Attn: Dana Carter  
Client Address: 4904 Griggs Rd  
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0309-21  
Sample Collected By: Dana Carter  
Date Collected: 03/13/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Non haz WW	Water	09030475.01

APR 03 2009

*Shantall Carpenter*

Released By: Shantall Carpenter

Title: Project Manager

Date: 3/31/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 03/20/2009 08:50

# LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09030475

Date: 3/31/2009

## General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

## Qualifier Definition

APR 03 2009

**LABORATORY TEST RESULTS**

Date 3/31/2009

Job ID : 09030475

Client Name: CES Environmental

Attn: Dana Carter

Project Name: TT Barge Mile 237

Client Sample ID: Non haz WW

Job Sample ID: 09030475.01

Date Collected: 03/13/09

Sample Matrix Water

Time Collected: 10:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	Benzene	0.785	mg/L	10	0.02			03/20/09 16:31	HK
	Toluene	0.769	mg/L	10	0.02			03/20/09 16:31	HK
	Ethylbenzene	0.218	mg/L	10	0.02			03/20/09 16:31	HK
	m- & p-Xylenes	0.53	mg/L	10	0.04			03/20/09 16:31	HK
	o-Xylene	0.519	mg/L	10	0.02			03/20/09 16:31	HK
	Xylenes	1.049	mg/L	10	0.06			03/20/09 16:31	HK
	Trifluorotoluene(surr)	102	%	10	75-125			03/20/09 16:31	HK

APR 03 2009

# QUALITY CONTROL CERTIFICATE



Job ID : 09030475

Date : 3/31/2009

Analysis : Purgeable Aromatics

Method : SW-846 8021B

Reporting Units : mg/L

QC Batch ID : Qb09032029

Created Date : 03/20/09

Created By : Hkhuc

Samples in This QC Batch : 09030475.01

Sample Preparation : PB09032421

Prep Method : SW-846 5030C

Prep Date : 03/20/09 16:30 Prep By : Hkhuc

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Benzene	71-43-2	BRL	mg/L	1	0.002	
Toluene	108-88-3	BRL	mg/L	1	0.002	
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004	
o-Xylene	95-47-6	BRL	mg/L	1	0.002	
Xylenes		BRL	mg/L	1	0.006	

## QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.02	0.02	100	0.02	0.021	105	4.9	20	80-120	
Toluene	0.02	0.018	90	0.02	0.018	90	0	20	80-120	
Ethylbenzene	0.02	0.019	95	0.02	0.019	95	0	20	80-120	
m- & p-Xylenes	0.04	0.040	100	0.04	0.040	100	0	20	80-120	
o-Xylene	0.02	0.017	85	0.02	0.017	85	0	20	80-120	
Xylenes	0.06	0.057	95	0.06	0.057	95	0	20	80-120	


## QC Type: MS and MSD

QC Sample ID: 09030479.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.02	0.02	100						80-120	
Toluene	BRL	0.02	0.018	90						80-120	
Ethylbenzene	BRL	0.02	0.019	95						80-120	
m- & p-Xylenes	BRL	0.04	0.036	90						80-120	
o-Xylene	BRL	0.02	0.017	85						80-120	
Xylenes	BRL	0.06	0.053	88.3						80-120	

APR 03 2009

Refer to the Definition page for terms.

 <b>10100 East Hwy. (110) Ste. 100</b> <b>Houston, TX 77029</b> <b>713-453-6060</b> <b>1-877-478-6060 Toll Free</b> <b>713-453-6091 Fax</b> <b>ablabs.com</b>		<b>1. REPORT TO:</b> Company: <u>CES Environmental</u> Address: <u>4904 Griggs Road</u> <u>Houston TX 77021</u> Contact: <u>Dana Carter</u> Phone: <u>713-748-9804</u> Fax: <input type="checkbox"/> <u>713-748-8064</u> E-mail: <input type="checkbox"/> <u>dccarter@cesenvironmental.com</u>		<b>2. INVOICE TO:</b> Company: <u>CES Env</u> Address: <u>Same</u> Contact: <u>Janita Thomas</u> Phone: <u>713-676-1460</u> Fax: <input type="checkbox"/> <u>713-748-8064</u>		<b>3. PO #</b> <u>0309-21</u>	
		<b>4. Turnaround Time (Business Days)</b> <input type="checkbox"/> 1 Day* <input type="checkbox"/> Other <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days*      *Surcharge applies <input checked="" type="checkbox"/> 7 Days - Standard					
<b>A&amp;B JOB ID #</b> <u>09030415</u>		<b>5. Project #</b>		<b>6. Project Name/Location</b> <u>TT Barge mile 237</u>		<b>7. Reporting Requirement:</b> <input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II	
<b>8. Sampler's Name &amp; Company (PLEASE PRINT)</b> <u>Dana Carter CES</u>		<b>9. Sample ID and Description</b> <u>OIA Nonhaz ww</u>		<b>10. Sampling</b> Date: <u>3-13-09</u> Time: <u>10 AM</u>		<b>11. Matrix</b> Comp. <input type="checkbox"/> Grab <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Sludge <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Other <input type="checkbox"/>	
<b>12. Containers*</b> <b>13. Preservatives**</b> <b>14. PH-Lab Only</b>		<b>15. Analyses/Methods</b> <u>BTEX</u>		<b>16. REMARKS</b> <div style="text-align: right; margin-top: 100px;">           APR 03 2009         </div>			
<b>19. RELINQUISHED BY</b> <u>Dana Carter</u>		<b>20. RECEIVED BY</b> <u>[Signature]</u>		<b>21. RECEIVED BY LABORATORY</b> <u>[Signature]</u>		<b>22. KNOWN HAZARDS/COMMENTS</b> Temperature: <u>51</u> °C Intact: Y or N      Initials: <u>DW</u>	
*Containers: <b>VOA</b> - 40 ml vial <b>4 oz/8 oz</b> - glass wide mouth		<b>A/G</b> - Amber/Glass 1 Liter <b>P/O</b> - Plastic/other		<b>**Preservatives:</b> <b>C</b> - Cool <b>H</b> - HCl <b>N</b> - HNO <sub>3</sub> <b>OH</b> - NaOH <b>T</b> - Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> <b>X</b> - Other		S - H <sub>2</sub> SO <sub>4</sub>	
<b>METHOD OF SHIPMENT</b>		<b>BILL OF LADING/TRACKING #</b>		<b>LAB USE ONLY</b> <b>SAMPLING</b> _____ <b>RENTAL</b> _____ <b>P/U</b> _____		A&B cannot accept verbal changes Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days A&B reserves the right to return samples	



## Sample Condition Checklist

Date : 03/31/09

A&B JobID :	09030475	Date Received :	03/20/2009	Time Received :	8:50AM							
Client Name :	CES Environmental											
Temperature :	5.1°C	Sample pH :	N/A									
	Check Points				Yes	No						
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.				X							
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative				N/A							
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
Comments : Include actions taken to resolve discrepancies/problem:												

Received by : Dwight

APR 03 2009

Check in by/date : Dwight / 03/20/2009

A & B Environmental Services, Inc.



# Invoice

10100 East Freeway, Suite 100  
Houston, TX 77029  
(713) 453-6060

copy

DATE	INVOICE #
3/31/2009	116054

BILL TO
CES Environmental Services, Inc Attn: Accounts Payable 4904 Griggs Road Houston, TX 77021

CUSTOMER PROJECT AND NO.
TT Barge Mile 237 Sample: 03/13/09 Dana Carter

P.O. NUMBER	TERMS	DUE DATE	DATE REC.	ACCT. NO.	SAMPLE ID NO.
0309-21	Due on receipt	3/31/2009	3/20/2009		09030475.01
QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT	
1	BTEX	BTEX	35.00	35.00	
Thank you for your business.					<b>Total</b> \$35.00

*CES Internal Analysis*

APR 03 2009

**POSTED**  
4-15-09

EPAHO082001297

Non haz



4904 Griggs Road  
Houston, TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1676

To: Dana Carter  
CC: Matt Bowman, Prabhaker, Clint Hopkins, Sam Brown

Date: 6/05/09

From: Miles Root

Lab Memo: 09-109

Subject: **TT Barge Evaluation 0609-04**

A sample of waste water from TT Barge, mile 237, has been evaluated for potential processing at CES. This sample is evaluation 0609-04 and represents four batches per year receipts, with each batch containing approximately 20,000 gallons. This water is generated from the cleaning of barges. Overall, this water looks good for treatment initially in our heat tank to recover the trace amounts of oil and then processing the resulting water. Its acquisition is recommended.

This water has an oily sheen that phase separates out nicely with minimal heat and acid treatment. The neat water has a pH of 6 and an odor that is somewhat objectionable. It treats easily and without issues. The treated water has 5 ppm phenols, acceptable metals and a TOC of 5930 ppm. Our pricing should cover the higher TOC and heat treatment/acidification costs.

Since this is water is generated from barge cleaning operations it will be different each time it is received. This particular sample looks good for treatment and its acquisition is recommended. The table below summarizes the analytical testing.

TT Barge	
Evaluation 0609-04	
Solids, vol%	0
Odor	Somewhat objectionable
pH	6
Phenols, ppm	5
TOC, mg/L	5,930
Oil, vol%	trace
Treatability	Okay
Metals, ppm	
Ni	0.141
Zn	0.003
Cu	0.023
Cd	0.005
Cr	0.000

EPAHO082001298

Email ✓  
Jeff  

---

waiting on  
mail

# Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 09030475



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :  
TT Barge Mile 237

Report To : Client Name: CES Environmental  
Attn: Dana Carter  
Client Address: 4904 Griggs Rd  
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0309-21  
Sample Collected By: Dana Carter  
Date Collected: 03/13/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Non haz WW	Water	09030475.01

*Shantall Carpenter*

Released By: Shantall Carpenter  
Title: Project Manager  
Date: 3/31/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received : 03/20/2009 08:50

# LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09030475

Date: 3/31/2009

## General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

## Qualifier Definition

**LABORATORY TEST RESULTS**

Job ID : 09030475

Date 3/31/2009

Client Name: CES Environmental

Attn: Dana Carter

Project Name: TT Barge Mile 237

Client Sample ID: Non haz WW

Job Sample ID: 09030475.01

Date Collected: 03/13/09

Sample Matrix Water

Time Collected: 10:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	Benzene	0.785	mg/L	10	0.02			03/20/09 16:31	HK
	Toluene	0.769	mg/L	10	0.02			03/20/09 16:31	HK
	Ethylbenzene	0.218	mg/L	10	0.02			03/20/09 16:31	HK
	m- & p-Xylenes	0.53	mg/L	10	0.04			03/20/09 16:31	HK
	o-Xylene	0.519	mg/L	10	0.02			03/20/09 16:31	HK
	Xylenes	1.049	mg/L	10	0.06			03/20/09 16:31	HK
	Trifluorotoluene(surr)	102	%	10	75-125			03/20/09 16:31	HK

# QUALITY CONTROL CERTIFICATE



**Job ID :** 09030475

**Date :** 3/31/2009

**Analysis :** Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/L

**QC Batch ID :** Qb09032029 **Created Date :** 03/20/09 **Created By :** Hkhuc

**Samples in This QC Batch :** 09030475.01

**Sample Preparation :** PB09032421 **Prep Method :** SW-846 5030C **Prep Date :** 03/20/09 16:30 **Prep By :** Hkhuc

## QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Benzene	71-43-2	BRL	mg/L	1	0.002	
Toluene	108-88-3	BRL	mg/L	1	0.002	
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002	
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004	
o-Xylene	95-47-6	BRL	mg/L	1	0.002	
Xylenes		BRL	mg/L	1	0.006	

## QC Type: LCS and LCSD


Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.02	0.02	100	0.02	0.021	105	4.9	20	80-120	
Toluene	0.02	0.018	90	0.02	0.018	90	0	20	80-120	
Ethylbenzene	0.02	0.019	95	0.02	0.019	95	0	20	80-120	
m- & p-Xylenes	0.04	0.040	100	0.04	0.040	100	0	20	80-120	
o-Xylene	0.02	0.017	85	0.02	0.017	85	0	20	80-120	
Xylenes	0.06	0.057	95	0.06	0.057	95	0	20	80-120	

## QC Type: MS and MSD

**QC Sample ID:** 09030479.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.02	0.02	100						80-120	
Toluene	BRL	0.02	0.018	90						80-120	
Ethylbenzene	BRL	0.02	0.019	95						80-120	
m- & p-Xylenes	BRL	0.04	0.036	90						80-120	
o-Xylene	BRL	0.02	0.017	85						80-120	
Xylenes	BRL	0.06	0.053	88.3						80-120	

Refer to the Definition page for terms.

 <p>10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com</p>		<p>1. REPORT TO:</p> <p>Company: <u>CES Environmental</u></p> <p>Address: <u>4904 Griggs Road</u> <u>Houston TX 77021</u></p> <p>Contact: <u>Dana Carter</u></p> <p>Phone: <u>713-748-9804</u></p> <p>Fax: <u>713-748-8064</u></p> <p>E-mail: <u>dcarter@cesenvironmental.com</u></p>		<p>2. INVOICE TO:</p> <p>Company: <u>CES Env</u></p> <p>Address: <u>Same</u></p> <p>Contact: <u>Janita Thomas</u></p> <p>Phone: <u>713-676-1460</u></p> <p>Fax: <u>713-748-8064</u></p>		<p>3. PO # <u>0309-21</u></p> <p>4. Turnaround Time (Business Days)</p> <p><input type="checkbox"/> 1 Day* <input type="checkbox"/> Other</p> <p><input type="checkbox"/> 2 Days*</p> <p><input type="checkbox"/> 3 Days* *Surcharge applies</p> <p><input checked="" type="checkbox"/> 7 Days - Standard</p>	
<p>A&amp;B JOB ID # <u>D9030415</u></p> <p>5. Project #</p>		<p>6. Project Name/Location</p> <p><u>TT Barge Mile 231</u></p>		<p>13. Containers*</p> <p>14. Preservatives**</p> <p>15. PH-Lab Only</p> <p>16. PH-Lab Only</p> <p>17. Analyses/Methods</p> <p><u>BLEX</u></p>			
<p>7. Reporting Requirement:</p> <p><input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II</p>		<p>8. Sampler's Name &amp; Company (PLEASE PRINT)</p> <p><u>Dana Carter CES</u></p>		<p>9. Sample ID and Description</p> <p><u>OIA Nonhaz ww</u></p>			
<p>10. Sampling</p> <p>Date Time</p>		<p>11. 12. Matrix</p> <p>Comp. Grab Water Soil Sludge Oil Air Other</p>		<p>18. REMARKS</p>			
<p>19. RELINQUISHED BY</p> <p><u>Dana Carter</u></p>		<p>20. RECEIVED BY</p> <p><u>[Signature]</u></p>		<p>22. KNOWN HAZARDS/COMMENTS</p>			
<p>DATE TIME</p> <p><u>3/20/09 8:50 AM</u></p>		<p>DATE TIME</p> <p><u>3/20/09 8:50</u></p>		<p>Temperature: <u>51.1 °C</u></p> <p>Initials: <u>Du</u></p>			
<p>*Containers: VOA - 40 ml vial 4 oz/8 oz - glass wide mouth</p>		<p>A/G - Amber/Glass: 1 Liter P/O - Plastic/other</p>		<p>**Preservatives: C - Cool H - HCl N - HNO<sub>3</sub> OH - NaOH T - Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub> S - H<sub>2</sub>SO<sub>4</sub> X - Other</p>			
<p>BILL OF LADING/TRACKING #</p>		<p>BILL OF LADING/TRACKING #</p>		<p>A&amp;B cannot accept verbal changes Please FAX written changes to 713-453-6091 Samples will be disposed of after 30 days</p>			



## Sample Condition Checklist

Date : **03/31/09**

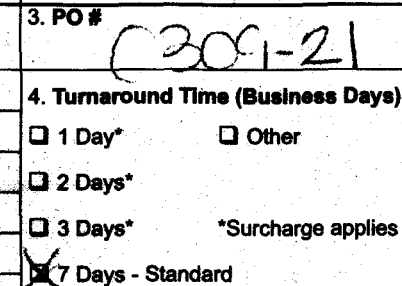
A&B JobID : <b>09030475</b>	Date Received : <b>03/20/2009</b>	Time Received : <b>8:50AM</b>
Client Name : <b>CES Environmental</b>		
Temperature : <b>5.1°C</b>	Sample pH : <b>N/A</b>	

	Check Points	Yes	No																								
1.	Cooler seal present and signed.	N/A																									
2.	Sample(s) in a cooler.	X																									
3.	If yes, ice in cooler.	X																									
4.	Sample(s) received with chain-of-custody.	X																									
5.	C-O-C signed and dated.	X																									
6.	Sample(s) received with signed sample custody seal.	N/A																									
7.	Sample containers arrived intact. (If no comment).	X																									
8.	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																
:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
9.	Sample(s) were received in appropriate container(s).	X																									
10.	Sample(s) were received with proper preservative	N/A																									
11.	All samples were logged or labeled.	X																									
12.	Sample ID labels match C-O-C ID's	X																									
13.	Bottle count on C-O-C matches bottles found.	X																									
14.	Sample volume is sufficient for analyses requested.	X																									
15.	Samples were received within the hold time.	X																									
16.	VOA vials completely filled.	N/A																									
17.	Sample accepted.	X																									
Comments : Include actions taken to resolve discrepancies/problem:  																											

Received by : **Dwright**

Check in by/date : **Dwright / 03/20/2009**

[illegible]

Samples will be disposed of after 30 days  
A&B reserves the right to return samples

# Laboratory Analysis Report

Total Number of Pages: 6

Job ID : 09030475



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :  
TT Barge Mile 237

Report To : Client Name: CES Environmental  
Attn: Dana Carter  
Client Address: 4904 Griggs Rd  
City, State, Zip: Houston, Texas, 77021

P.O.#.: 0309-21  
Sample Collected By: Dana Carter  
Date Collected: 03/13/09

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Non haz WW	Water	09030475.01

*Shantall Carpenter*

Released By: Shantall Carpenter  
Title: Project Manager  
Date: 3/31/2009



This Laboratory is NELAP (T104704213-08B-TX) accredited. Effective: 07/01/2008; Expires: 06/03/2009

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

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Date Received : 03/20/2009 08:50

# LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 09030475

Date: 3/31/2009

## General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

## Qualifier Definition

**LABORATORY TEST RESULTS**

Job ID : 09030475

Date 3/31/2009

Client Name: CES Environmental

Attn: Dana Carter

Project Name: TT Barge Mile 237

Client Sample ID: Non haz WW

Job Sample ID: 09030475.01

Date Collected: 03/13/09

Sample Matrix Water

Time Collected: 10:00

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	Benzene	0.785	mg/L	10	0.02			03/20/09 16:31	HK
	Toluene	0.769	mg/L	10	0.02			03/20/09 16:31	HK
	Ethylbenzene	0.218	mg/L	10	0.02			03/20/09 16:31	HK
	m- & p-Xylenes	0.53	mg/L	10	0.04			03/20/09 16:31	HK
	o-Xylene	0.519	mg/L	10	0.02			03/20/09 16:31	HK
	Xylenes	1.049	mg/L	10	0.06			03/20/09 16:31	HK
	Trifluorotoluene(surr)	102	%	10	75-125			03/20/09 16:31	HK

# QUALITY CONTROL CERTIFICATE



**Job ID :** 09030475

**Date :** 3/31/2009


<b>Analysis :</b> Purgeable Aromatics	<b>Method :</b> SW-846 8021B	<b>Reporting Units :</b> mg/L
<b>QC Batch ID :</b> Qb09032029	<b>Created Date :</b> 03/20/09	<b>Created By :</b> Hkhuc
<b>Samples in This QC Batch :</b> 09030475.01		
<b>Sample Preparation :</b> PB09032421	<b>Prep Method :</b> SW-846 5030C	<b>Prep Date :</b> 03/20/09 16:30 <b>Prep By :</b> Hkhuc

QC Type: Method Blank							
Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Benzene	71-43-2	BRL	mg/L	1	0.002		
Toluene	108-88-3	BRL	mg/L	1	0.002		
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002		
m- & p-Xylenes	108-38-3&106-42-3	BRL	mg/L	1	0.004		
o-Xylene	95-47-6	BRL	mg/L	1	0.002		
Xylenes		BRL	mg/L	1	0.006		

QC Type: LCS and LCSD										
Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.02	0.02	100	0.02	0.021	105	4.9	20	80-120	
Toluene	0.02	0.018	90	0.02	0.018	90	0	20	80-120	
Ethylbenzene	0.02	0.019	95	0.02	0.019	95	0	20	80-120	
m- & p-Xylenes	0.04	0.040	100	0.04	0.040	100	0	20	80-120	
o-Xylene	0.02	0.017	85	0.02	0.017	85	0	20	80-120	
Xylenes	0.06	0.057	95	0.06	0.057	95	0	20	80-120	

QC Type: MS and MSD											
QC Sample ID: 09030479.01											
Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.02	0.02	100						80-120	
Toluene	BRL	0.02	0.018	90						80-120	
Ethylbenzene	BRL	0.02	0.019	95						80-120	
m- & p-Xylenes	BRL	0.04	0.036	90						80-120	
o-Xylene	BRL	0.02	0.017	85						80-120	
Xylenes	BRL	0.06	0.053	88.3						80-120	

Refer to the Definition page for terms.

 <p>10100 East Fwy (I-10) Ste. 100 Houston, TX 77029 713-453-6060 1-877-478-6060 Toll Free 713-453-6091 Fax ablabs.com</p>		<p>1. REPORT TO:</p> <p>Company: CES Environmental</p> <p>Address: 4904 Griggs Road Houston TX 77021</p> <p>Contact: Dana Carter</p> <p>Phone: 713-748-9804</p> <p>Fax: 713-748-8064</p> <p>E-mail: dcarter@cesenvironmental.com</p>		<p>2. INVOICE TO:</p> <p>Company: CES Env</p> <p>Address: Same</p> <p>Contact: Janita Thomas</p> <p>Phone: 713-676-1460</p> <p>Fax: 713-748-8064</p>		<p>3. PO # 0309-21</p> <p>4. Turnaround Time (Business Days)</p> <p><input type="checkbox"/> 1 Day* <input type="checkbox"/> Other</p> <p><input type="checkbox"/> 2 Days*</p> <p><input type="checkbox"/> 3 Days* *Surcharge applies</p> <p><input checked="" type="checkbox"/> 7 Days - Standard</p>	
<p>A&amp;B JOB ID # 09030415</p> <p>5. Project #</p>		<p>6. Project Name/Location</p> <p>TT Barge Mile 237</p>		<p>13. Containers*</p> <p>14. Preservatives**</p> <p>15. PH-Lab Only</p> <p>16. PH-Lab Only</p> <p>17. Analyses/Methods</p> <p>BTEX</p>			
<p>7. Reporting Requirement:</p> <p><input type="checkbox"/> TRRP Limits only <input type="checkbox"/> TRRP Rpt. Package <input type="checkbox"/> See Attached <input type="checkbox"/> Standard Level II</p>		<p>8. Sampler's Name &amp; Company (PLEASE PRINT)</p> <p>Dana Carter CES</p>		<p>9. Sample ID and Description</p> <p>OIA Nonhaz ww</p>			
<p>10. Sampling</p> <p>Date Time</p> <p>3-13-09 10am</p>		<p>11. Matrix</p> <p>Comp Grab Water Soil Sludge Oil Air Other</p> <p>X X</p>		<p>18. REMARKS</p>			
<p>19. RELINQUISHED BY</p> <p>Dana Carter</p>		<p>20. RECEIVED BY</p> <p>3-20-09 8:50am</p>		<p>21. RECEIVED BY LABORATORY</p> <p>3-20-09 8:50</p>			
<p>22. KNOWN HAZARDS/COMMENTS</p> <p>Temperature: 51°C</p> <p>Intact: Y or N</p> <p>Initials: Du</p>		<p>23. CONTAINERS</p> <p>VOA - 40 ml vial</p> <p>4 oz/8 oz - glass wide mouth</p>		<p>24. PRESERVATIVES</p> <p>C - Cool</p> <p>H - HCl</p> <p>OH - NaOH</p> <p>T - Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub></p>			
<p>25. BILL OF LADING/TRACKING #</p>		<p>26. A&amp;B cannot accept verbal changes</p> <p>Please FAX written changes to 713-453-609</p> <p>Samples will be disposed of after 30 days</p>		<p>27. A&amp;B cannot accept verbal changes</p> <p>Please FAX written changes to 713-453-609</p> <p>Samples will be disposed of after 30 days</p>			



## Sample Condition Checklist

Date : 03/31/09

A&B JobID : <b>09030475</b>		Date Received : <b>03/20/2009</b>		Time Received : <b>8:50AM</b>								
Client Name : <b>CES Environmental</b>												
Temperature : <b>5.1°C</b>		Sample pH : <b>N/A</b>										
	<b>Check Points</b>				<b>Yes</b>	<b>No</b>						
1.	Cooler seal present and signed.				N/A							
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.				X							
4.	Sample(s) received with chain-of-custody.				X							
5.	C-O-C signed and dated.				X							
6.	Sample(s) received with signed sample custody seal.				N/A							
7.	Sample containers arrived intact. (If no comment).				X							
8.	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
:		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Sample(s) were received in appropriate container(s).				X							
10.	Sample(s) were received with proper preservative				N/A							
11.	All samples were logged or labeled.				X							
12.	Sample ID labels match C-O-C ID's				X							
13.	Bottle count on C-O-C matches bottles found.				X							
14.	Sample volume is sufficient for analyses requested.				X							
15.	Samples were received within the hold time.				X							
16.	VOA vials completely filled.				N/A							
17.	Sample accepted.				X							
Comments : Include actions taken to resolve discrepancies/problem:												

Received by : Dwright

Check in by/date : Dwright / 03/20/2009



March 13, 2009

Mr. Ronald Gemeinhardt  
VRM Group, L.P.  
2323 Clearlake City Boulevard, #180-184  
Houston, TX 77062

22 dr soil  
3 dr water

**RE: Waste Generator Statement**  
**25 55-Gallon Drums**  
**9633 Westheimer**  
**Houston, Texas 77063**  
**Envirotest Project Number: HOU 09 0171**

Dear Gemeinhardt:

Waste contained in the 55-gallon drums located at the above referenced property was generated during the installation of three (3) groundwater monitoring wells. Twenty-two (22) of the drums contain soil cuttings. Three (3) of the drums contain purgewater generated during development and purging of the groundwater wells. The wells were installed as part of delineation of groundwater impacts in a saturated zone located approximately fifty-five (55) feet below ground surface. There have been no known on-site sources at the property that would have had the potential to result in soil contamination. The investigation was performed as part of activities required for a Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP) site on a north adjacent property. The VCP site is undergoing monitoring due to the presence of soil and groundwater impacts resulting from a release at a dry cleaning facility. Discussions with the TCEQ led to the determination that, due to the lack of a presence of a historic source at 9633 Westheimer, soil collection and analysis was not necessary during the investigation.

Analytical data for purgewater contained in the drums is attached. Please advise me as to anything else you need to facilitate disposal of the drums at the property.

Sincerely,

Matthew R. Monroe M.S.  
Environmental Project Manager  
Envirotest, Ltd.

HOUSTON • CORPUS CHRISTI • BEAUMONT  
CORPORATE OFFICE: 3902 BRAXTON DRIVE • HOUSTON, TX 77063 • VOICE 713782-4411 •  
TOLL FREE 1-800-460-1736 • FAX 713-782-3428 • WWW.ENVIROTESTLTD.COM

EPAHO082001313



Attachments:

1) Laboratory Analytical Data – Groundwater

- 2 -

HOUSTON • CORPUS CHRISTI • BEAUMONT  
CORPORATE OFFICE: 3902 BRAXTON DRIVE • HOUSTON, TX 77063 • VOICE 713782-4411 •  
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EPAHO082001314

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Houston, Texas 77062

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www.vrmus.com

**Date:** 3/13/09**Material Information Pick-up Request**

<b>Company Name</b>	Envirotest, Ltd.
<b>Site Contact</b>	Matt Monroe
<b>Contact Phone</b>	713-782-4411
<b>Email Address</b>	mmonroe@envirotestltd.com
<b>Contact Fax</b>	713-532-3931
<b>Site Address</b>	9633 Westheimer
<b>City/State/Zip</b>	Houston, Texas 77063

Is this information the same as above? ☒ Yes ☒ No - if No, complete section below

<b>Contact</b>	Doug Stewart
<b>Contact Phone</b>	713-782-4411
<b>Email Address</b>	dstewart@envirotestltd.com
<b>Contact Fax</b>	713-532-3931
<b>Contact Address</b>	3902 Braxton
<b>City/State/Zip</b>	Houston, Texas 77063

**Material Description**

<b>Describe Material</b>	Soil cuttings/Purgewater
<b>Accumulation Date</b>	9-9-08 through 12-05-8
<b>Sampling Date</b>	9-9-08 (groundwater), 03/16/09 (soil)
<b>Process generating material</b>	Phase II Subsurface Investigation/Well Installation
<b>Handling Instructions</b>	Dispose at appropriate facility.

**Type of Container**

<b>Drum</b>	<b>How Many?</b> 25	<b>Type:</b> 55-gallon Steel	<b>Drum ID #:</b> Various/Labled
<b>Roll-off Bin</b>	<b>How Many?</b>	<b>Bin 1 Volume</b> cu yds	<b>Bin 2 Volume</b> cu yds.
<b>Bin supplied by</b>			
<b>Bulk Pile</b>	<b>Size</b>	<b>Yds</b>	
<b>Tank</b>	<b>gallons</b>		
<b>Other</b>			
<b>Location of container</b>	West side of building towards rear of building.		

**Attachments**

<b>Generator Knowledge Statement</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Material Safety Data Sheet (MSDS)</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Representative Sample Analysis</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Contact Information**

<b>Request Completed By</b>	Matt Monroe		
<b>Phone</b>	713-782-4411	<b>Fax</b>	713-532-3931
<b>Email</b>	mmonroe@envirotestltd.com		

**Environmental Science Corporation  
Mount Juliet, TN**

**For: Envirotest**

**Phase 1/2/3 Off-Site Data**

**L367699**

**Lab Name:**

**Address:**

**L367699-01**

**L367699-02**

(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

EST. 1970

1 of 41

EPAHO082001316

## Appendix A Laboratory Data Package Cover Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

**Release Statement:** I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

**Check, if applicable:** ☐ This laboratory is an in-house laboratory controlled by the person responding to rule. The official signing the cover page of the rule-required report (for example, the APAR) in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

William Mock  
Operations Manager  
Environmental Science Corp.

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data							
Laboratory Name: Environmental Science				LRC Date: 10/07/08			
Project Name: Woodlake Square Off-Site Delin.				Laboratory Job Number: L367699-01, -02, and -04			
Reviewer Name: ESC Representative				Prep Batch Number(s): WG387069 V8260			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
		<b>Chain-of-custody (C-O-C)</b>					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from standard conditions described in an exception report?	✓				
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample quantitation limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		If required for the project, TICs reported?				✓	
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at the required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		✓			1
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		Was the LCSD RPD within QC limits?	✓				
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	✓				
		Were MS/MSD analyzed at the appropriate frequency?	✓				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Were MS/MSD RPDs within laboratory QC limits?		✓			2
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?			✓		
		Were analytical duplicates analyzed at the appropriate frequency?			✓		
		Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Were all necessary corrective actions performed for the reported data?	✓				
		Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

## Appendix A (cont'd): Laboratory Review Checklist: Exception Reports

<b>Laboratory Name: Environmental Science Corp.</b>	<b>LRC Date: 10/7/2008</b>
<b>Project Name: Woodlake Square Off-Site Delin.</b>	<b>Laboratory Job Number: L367699</b>
<b>Reviewer Name: ESC Representative</b>	<b>Prep Batch Numbers: WG387069 V8260</b>

Sample(s) MW-14, MW-15, FIELD BLANK were analyzed for

ER#:	Description
------	-------------

- |   |   |
|---|---|
| 1 | The laboratory control sample or laboratory control sample duplicate recoveries were outside the laboratory control limits for Acrolein |
| 2 | The relative percent differences exceeded laboratory limits for 2-Chloroethyl vinyl ether   |

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data							
Laboratory Name: Environmental Science			LRC Date: 10/07/08				
Project Name: Woodlake Square Off-Site Delin.			Laboratory Job Number: L367699-01, -02, and -04				
Reviewer Name: ESC Representative			Prep Batch Number(s): WG387069 V8260				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				
		Were all departures from standard conditions described in an exception report?	✓				
R2	OI	<b>Sample and quality control (QC) identification</b>					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	<b>Test reports</b>					
		Were all samples prepared and analyzed within holding times?	✓				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		Were calculations checked by a peer or supervisor?	✓				
		Were all analyte identifications checked by a peer or supervisor?	✓				
		Were sample quantitation limits reported for all analytes not detected?	✓				
		Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		If required for the project, TICs reported?			✓		
R4	O	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?	✓				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		Were appropriate type(s) of blanks analyzed?	✓				
		Were blanks analyzed at the appropriate frequency?	✓				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		Were blank concentrations < MQL?	✓				
R6	OI	<b>Laboratory control samples (LCS):</b>					
		Were all COCs included in the LCS?	✓				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		Were LCSs analyzed at the required frequency?	✓				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		✓			1
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		Were the project/method specified analytes included in the MS and MSD?	✓				
		Were MS/MSD analyzed at the appropriate frequency?	✓				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				
		Were MS/MSD RPDs within laboratory QC limits?		✓			2
R8	OI	<b>Analytical duplicate data</b>					
		Were appropriate analytical duplicates analyzed for each matrix?			✓		
		Were analytical duplicates analyzed at the appropriate frequency?			✓		
		Were RPDs or relative standard deviations within the laboratory QC limits?			✓		
R9	OI	<b>Method quantitation limits (MQLs):</b>					
		Are the MQLs for each method analyte included in the laboratory data package?	✓				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	<b>Other problems/anomalies</b>					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		Were all necessary corrective actions performed for the reported data?	✓				
		Was applicable and available technology used to lower the SQL minimize the matrix interference effects on the sample results?	✓				

- Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
- NA = Not applicable;
- NR = Not reviewed;
- ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

## Appendix A (cont'd): Laboratory Review Checklist: Exception Reports

<b>Laboratory Name: Environmental Science Corp.</b>	<b>LRC Date: 10/7/2008</b>
<b>Project Name: Woodlake Square Off-Site Delin.</b>	<b>Laboratory Job Number: L367699</b>
<b>Reviewer Name: ESC Representative</b>	<b>Prep Batch Numbers: WG387069 V8260</b>

Sample(s) MW-14, MW-15, FIELD BLANK were analyzed for

ER#:	Description
------	-------------

- |   |   |
|---|---|
| 1 | The laboratory control sample or laboratory control sample duplicate recoveries were outside the laboratory control limits for Acrolein |
| 2 | The relative percent differences exceeded laboratory limits for 2-Chloroethyl vinyl ether   |

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data									
Laboratory Name: Environmental Science					LRC Date: 10/07/08				
Project Name: Woodlake Square Off-Site Delin.					Laboratory Job Number: L367699-03				
Reviewer Name: ESC Representative					Prep Batch Number(s): WG387247 V8260				
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>		
		<b>Chain-of-custody (C-O-C)</b>							
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓						
		Were all departures from standard conditions described in an exception report?	✓						
R2	OI	<b>Sample and quality control (QC) identification</b>							
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓						
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓						
R3	OI	<b>Test reports</b>							
		Were all samples prepared and analyzed within holding times?	✓						
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓						
		Were calculations checked by a peer or supervisor?	✓						
		Were all analyte identifications checked by a peer or supervisor?	✓						
		Were sample quantitation limits reported for all analytes not detected?	✓						
		Were all results for soil and sediment samples reported on a dry weight basis?	✓						
		Were % moisture (or solids) reported for all soil and sediment samples?	✓						
		If required for the project, TICs reported?				✓			
R4	O	<b>Surrogate recovery data</b>							
		Were surrogates added prior to extraction?	✓						
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓						
R5	OI	<b>Test reports/summary forms for blank samples</b>							
		Were appropriate type(s) of blanks analyzed?	✓						
		Were blanks analyzed at the appropriate frequency?	✓						
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓						
		Were blank concentrations < MQL?	✓						
R6	OI	<b>Laboratory control samples (LCS):</b>							
		Were all COCs included in the LCS?	✓						
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓						
		Were LCSs analyzed at the required frequency?	✓						
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓						
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓						
		Was the LCSD RPD within QC limits?	✓						
R7	OI	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>							
		Were the project/method specified analytes included in the MS and MSD?	✓						
		Were MS/MSD analyzed at the appropriate frequency?	✓						
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓				1	
		Were MS/MSD RPDs within laboratory QC limits?		✓				2	
R8	OI	<b>Analytical duplicate data</b>							
		Were appropriate analytical duplicates analyzed for each matrix?			✓				
		Were analytical duplicates analyzed at the appropriate frequency?			✓				
		Were RPDs or relative standard deviations within the laboratory QC limits?			✓				
R9	OI	<b>Method quantitation limits (MQLs):</b>							
		Are the MQLs for each method analyte included in the laboratory data package?	✓						
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓						
		Are unadjusted MQLs included in the laboratory data package?	✓						
R10	OI	<b>Other problems/anomalies</b>							
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓						
		Were all necessary corrective actions performed for the reported data?	✓						
		Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓						

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2. = organic analyses; 1 = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

## Appendix A (cont'd): Laboratory Review Checklist: Exception Reports

<b>Laboratory Name:</b> Environmental Science Corp.	<b>LRC Date:</b> 10/7/2008
<b>Project Name:</b> Woodlake Square Off-Site Delin.	<b>Laboratory Job Number:</b> L367699
<b>Reviewer Name:</b> ESC Representative	<b>Prep Batch Numbers:</b> WG387247 V8260

Sample(s) MW-16 were analyzed for Volatile Organic Compounds by

ER#:	Description
------	-------------

- |   |  |
|---|--|
| 1 | The matrix spike or matrix spike duplicate recoveries were over the laboratory control limits for 2-Chloroethyl vinyl ether. The matrix spike or matrix spike duplicate recoveries were below the laboratory control limits for 1,4-Dichlorobenzene.   |
| 2 | The relative percent differences exceeded laboratory limits for 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichloropropane, 1,2,4-Trimethylbenzene, 1,2-Dibromoethane, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2-Chloroethyl vinyl ether, 2-Chlorotoluene, 4-Chlorotoluene, Acrolein, Bromobenzene, Bromoform, Chlorobenzene, Chlorodibromomethane, Ethylbenzene, Isopropylbenzene, Methylene Chloride, n-Propylbenzene, p-Isopropyltoluene, sec-Butylbenzene, Styrene, tert-Butylbenzene, Tetrachloroethene, and Xylenes, Total |



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Est. 1979

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

Report Summary

Tuesday October 07, 2008

Report Number: L367699

Samples Received: 10/01/08

Client Project: HOU 080109

Description: Woodlake Square JCP

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis, ESC Representative

**Laboratory Certification Numbers**

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2227, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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4 Samples Reported: 10/07/08 11:43 Revised: 10/07/08 17:54  
Page 1 of 11



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## REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.  
Sample ID : MW-14  
Collected By : J. Boyle  
Collection Date : 09/29/08 14:34

ESC Sample # : L367699-01

Site ID :

Project # : HOU 080109

TCLP

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.0089	0.050	mg/l		8260B	10/04/08	1
Acrolein	U	0.014	0.050	mg/l	J4	8260B	10/04/08	1
Acrylonitrile	U	0.0017	0.010	mg/l		8260B	10/04/08	1
Benzene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
Bromobenzene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
Bromodichloromethane	U	0.00037	0.0010	mg/l		8260B	10/04/08	1
Bromoform	U	0.00051	0.0010	mg/l		8260B	10/04/08	1
Bromomethane	U	0.00089	0.0050	mg/l		8260B	10/04/08	1
n-Butylbenzene	U	0.00023	0.0010	mg/l		8260B	10/04/08	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
Carbon tetrachloride	U	0.00031	0.0010	mg/l		8260B	10/04/08	1
Chlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
Chlorodibromomethane	U	0.00042	0.0010	mg/l		8260B	10/04/08	1
Chloroethane	U	0.00086	0.0050	mg/l		8260B	10/04/08	1
2-Chloroethyl vinyl ether	U	0.0014	0.050	mg/l		8260B	10/04/08	1
Chloroform	U	0.0050	0.0050	mg/l		8260B	10/04/08	1
Chloromethane	U	0.00025	0.0025	mg/l		8260B	10/04/08	1
2-Chlorotoluene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
4-Chlorotoluene	U	0.00016	0.0010	mg/l		8260B	10/04/08	1
1,2-Dibromo-3-Chloropropane	U	0.00048	0.0050	mg/l		8260B	10/04/08	1
1,2-Dibromoethane	U	0.00048	0.0010	mg/l		8260B	10/04/08	1
Dibromomethane	U	0.00028	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
1,3-Dichlorobenzene	U	0.00019	0.0010	mg/l		8260B	10/04/08	1
1,4-Dichlorobenzene	U	0.00030	0.0010	mg/l		8260B	10/04/08	1
Dichlorodifluoromethane	U	0.00054	0.0050	mg/l		8260B	10/04/08	1
1,1-Dichloroethane	U	0.00031	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichloroethane	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
1,1-Dichloroethene	U	0.00050	0.0010	mg/l		8260B	10/04/08	1
cis-1,2-Dichloroethene	0.013	0.00038	0.0010	mg/l		8260B	10/04/08	1
trans-1,2-Dichloroethene	U	0.00030	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichloropropane	U	0.00052	0.0010	mg/l		8260B	10/04/08	1
1,1-Dichloropropene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,3-Dichloropropene	U	0.00023	0.0010	mg/l		8260B	10/04/08	1
cis-1,3-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
2,2-Dichloropropane	U	0.00025	0.0010	mg/l		8260B	10/04/08	1
Di-isopropyl ether	U	0.00025	0.0010	mg/l		8260B	10/04/08	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Hexachloro-1,3-butadiene	U	0.00049	0.0010	mg/l		8260B	10/04/08	1
Isopropylbenzene	U	0.00019	0.0010	mg/l		8260B	10/04/08	1

NA

U - ND (Not Detected)

MDL - Minimum Detection Limit = LOD = SQL(TRRP)

RDL - Reported Detection Limit = LOQ = PQL = EQL = MQL(TRRP)

Note:

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Page 2 of 11

10 of 41

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Est. 1970

## REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.

ESC Sample # : L367699-01

Sample ID : MW-14

Site ID :

Collected By : J. Boyle  
Collection Date : 09/29/08 14:34

Project # : HOU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
p-Isopropyltoluene	U	0.00021	0.0010	mg/l		8260B	10/04/08	1
2-Butanone (MEK)	U	0.0045	0.010	mg/l		8260B	10/04/08	1
Methylene Chloride	U	0.0040	0.0050	mg/l		8260B	10/04/08	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.010	mg/l		8260B	10/04/08	1
NA Methyl tert-butyl ether <b>MTBE</b>	0.0073	0.00019	0.0010	mg/l		8260B	10/04/08	1
Naphthalene	U	0.0040	0.0050	mg/l		8260B	10/04/08	1
n-Propylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Styrene	U	0.00038	0.0010	mg/l		8260B	10/04/08	1
1,1,1,2-Tetrachloroethane	U	0.00040	0.0010	mg/l		8260B	10/04/08	1
1,1,2,2-Tetrachloroethane	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
<0.7 1,1,2-Trichloro-1,2,2-trifluoro	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Tetrachloroethene	0.39	0.00029	0.0010	mg/l	E	8260B	10/04/08	1
Toluene	U	0.00027	0.0050	mg/l		8260B	10/04/08	1
1,2,3-Trichlorobenzene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
1,2,4-Trichlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
1,1,1-Trichloroethane	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
1,1,2-Trichloroethane	U	0.00045	0.0010	mg/l		8260B	10/04/08	1
<0.5 Trichloroethene	0.0052	0.00037	0.0010	mg/l		8260B	10/04/08	1
Trichlorofluoromethane	U	0.00029	0.0050	mg/l		8260B	10/04/08	1
1,2,3-Trichloropropane	U	0.00036	0.0010	mg/l		8260B	10/04/08	1
1,2,4-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
1,2,3-Trimethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,3,5-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
Vinyl chloride	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	10/04/08	1
Surrogate Recovery								
Toluene-d8	99.3			% Rec.		8260B	10/04/08	1
Dibromofluoromethane	105.			% Rec.		8260B	10/04/08	1
4-Bromofluorobenzene	98.5			% Rec.		8260B	10/04/08	1

U - ND (Not Detected)

MDL - Minimum Detection Limit - LOD - SQL(TRRP)

RDL - Reported Detection Limit - LOQ - PQL - EQL - MQL(TRRP)

Note:

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Page 3 of 11

11 of 41

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REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.

ESC Sample # : 1367699-02

Sample ID : MW-15

Site ID :

Collected By : J. Boyle  
Collection Date : 09/24/08 16:51

Project # : HOU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.0089	0.050	mg/l		8260B	10/04/08	1
Acrolein	U	0.014	0.050	mg/l	J4	8260B	10/04/08	1
Acrylonitrile	U	0.0017	0.010	mg/l		8260B	10/04/08	1
Benzene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
Bromobenzene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
Bromodichloromethane	U	0.00037	0.0010	mg/l		8260B	10/04/08	1
Bromoform	U	0.00051	0.0010	mg/l		8260B	10/04/08	1
Bromomethane	U	0.00089	0.0050	mg/l		8260B	10/04/08	1
n-Butylbenzene	U	0.00023	0.0010	mg/l		8260B	10/04/08	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
Carbon tetrachloride	U	0.00031	0.0010	mg/l		8260B	10/04/08	1
Chlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
Chlorodibromomethane	U	0.00042	0.0010	mg/l		8260B	10/04/08	1
Chloroethane	U	0.00086	0.0050	mg/l		8260B	10/04/08	1
2-Chloroethyl vinyl ether	U	0.0014	0.050	mg/l		8260B	10/04/08	1
Chloroform	U	0.0050	0.0050	mg/l		8260B	10/04/08	1
Chloromethane	U	0.00025	0.0025	mg/l		8260B	10/04/08	1
2-Chlorotoluene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
4-Chlorotoluene	U	0.00016	0.0010	mg/l		8260B	10/04/08	1
1,2-Dibromo-3-Chloropropane	U	0.00048	0.0050	mg/l		8260B	10/04/08	1
1,2-Dibromoethane	U	0.00048	0.0010	mg/l		8260B	10/04/08	1
Dibromomethane	U	0.00028	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
1,3-Dichlorobenzene	U	0.00019	0.0010	mg/l		8260B	10/04/08	1
1,4-Dichlorobenzene	U	0.00030	0.0010	mg/l		8260B	10/04/08	1
Dichlorodifluoromethane	U	0.00054	0.0050	mg/l		8260B	10/04/08	1
1,1-Dichloroethane	U	0.00031	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichloroethane	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
1,1-Dichloroethene	U	0.00050	0.0010	mg/l		8260B	10/04/08	1
NA cis-1,2-Dichloroethene	0.018	0.00038	0.0010	mg/l		8260B	10/04/08	1
trans-1,2-Dichloroethene	U	0.00030	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichloropropane	U	0.00052	0.0010	mg/l		8260B	10/04/08	1
1,1-Dichloropropene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,3-Dichloropropene	U	0.00023	0.0010	mg/l		8260B	10/04/08	1
cis-1,3-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
2,2-Dichloropropane	U	0.00025	0.0010	mg/l		8260B	10/04/08	1
NA Di-isopropyl ether	0.00033	0.00025	0.0010	mg/l	J	8260B	10/04/08	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Hexachloro-1,3-butadiene	U	0.00049	0.0010	mg/l		8260B	10/04/08	1
Isopropylbenzene	U	0.00019	0.0010	mg/l		8260B	10/04/08	1

U = ND (Not Detected)

MDL = Minimum Detection Limit - LOD - SQL(TRRP)

RDL = Reported Detection Limit - LOQ - PQL - EQL - MQL(TRRP)

Note:

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Page 4 of 11



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## REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.

ESC Sample # : L367699-02

Sample ID : MW-15

Site ID :

Collected By : J. Boyle  
Collection Date : 09/29/08 16:51

Project # : HGU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
<b>&lt;LOD</b> p-Isopropyltoluene	U	0.00021	0.0010	mg/l		8260B	10/04/08	1
2-Butanone (MEK)	0.0061	0.0045	0.010	mg/l	J	8260B	10/04/08	1
Methylene Chloride	U	0.0040	0.0050	mg/l		8260B	10/04/08	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.010	mg/l		8260B	10/04/08	1
<b>NA</b> Methyl tert-butyl ether	0.021	0.00019	0.0010	mg/l		8260B	10/04/08	1
Naphthalene	U	0.0040	0.0050	mg/l		8260B	10/04/08	1
n-Propylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Styrene	U	0.00038	0.0010	mg/l		8260B	10/04/08	1
1,1,1,2-Tetrachloroethane	U	0.00040	0.0010	mg/l		8260B	10/04/08	1
1,1,2,2-Tetrachloroethane	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
<b>LO.7</b> Tetrachloroethene	0.078	0.00029	0.0010	mg/l		8260B	10/04/08	1
Toluene	U	0.00027	0.0050	mg/l		8260B	10/04/08	1
1,2,3-Trichlorobenzene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
1,2,4-Trichlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
1,1,1-Trichloroethane	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
1,1,2-Trichloroethane	U	0.00045	0.0010	mg/l		8260B	10/04/08	1
<b>LO.5</b> Trichloroethene	0.0065	0.00037	0.0010	mg/l		8260B	10/04/08	1
Trichlorofluoromethane	U	0.00029	0.0050	mg/l		8260B	10/04/08	1
1,2,3-Trichloropropane	U	0.00036	0.0010	mg/l		8260B	10/04/08	1
1,2,4-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
1,2,3-Trimethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,3,5-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
Vinyl chloride	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	10/04/08	1
Surrogate Recovery								
Toluene-d8	99.9			% Rec.		8260B	10/04/08	1
Dibromofluoromethane	103.			% Rec.		8260B	10/04/08	1
4-Bromofluorobenzene	101.			% Rec.		8260B	10/04/08	1

U - ND (Not Detected)

MDL - Minimum Detection Limit - LOD - SQL (TRRP)

RDL - Reported Detection Limit - LOQ - PQL - EQL - MQL (TRRP)

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Page 5 of 11

13 of 41

EPAHQ082001328



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.

ESC Sample # : L367699-03

Sample ID : MW-16  
Collected By : J. Boyle  
Collection Date : 09/29/08 15:51

Site ID :  
Project # : HCU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.0089	0.050	mg/l		8260B	10/06/08	1
Acrolein	U	0.014	0.050	mg/l		8260B	10/06/08	1
Acrylonitrile	U	0.0017	0.010	mg/l		8260B	10/06/08	1
Benzenes	0.0048	0.00029	0.0010	mg/l		8260B	10/06/08	1
Bromobenzene	U	0.00024	0.0010	mg/l		8260B	10/06/08	1
Bromodichloromethane	U	0.00037	0.0010	mg/l		8260B	10/06/08	1
Bromoform	U	0.00051	0.0010	mg/l		8260B	10/06/08	1
Bromomethane	U	0.00089	0.0050	mg/l		8260B	10/06/08	1
n-Butylbenzene	U	0.00023	0.0010	mg/l		8260B	10/06/08	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	10/06/08	1
Carbon tetrachloride	U	0.00031	0.0010	mg/l		8260B	10/06/08	1
Chlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/06/08	1
Chlorodibromomethane	U	0.00042	0.0010	mg/l		8260B	10/06/08	1
Chloroethane	U	0.00086	0.0050	mg/l		8260B	10/06/08	1
2-Chloroethyl vinyl ether	U	0.0014	0.050	mg/l		8260B	10/06/08	1
Chloroform	U	0.00050	0.0050	mg/l		8260B	10/06/08	1
Chloromethane	U	0.00025	0.0025	mg/l		8260B	10/06/08	1
2-Chlorotoluene	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
4-Chlorotoluene	U	0.00016	0.0010	mg/l		8260B	10/06/08	1
1,2-Dibromo-3-Chloropropane	U	0.00048	0.0050	mg/l		8260B	10/06/08	1
1,2-Dibromoethane	U	0.00048	0.0010	mg/l		8260B	10/06/08	1
Dibromomethane	U	0.00028	0.0010	mg/l		8260B	10/06/08	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	10/06/08	1
1,3-Dichlorobenzene	U	0.00019	0.0010	mg/l		8260B	10/06/08	1
1,4-Dichlorobenzene	U	0.00030	0.0010	mg/l		8260B	10/06/08	1
Dichlorodifluoromethane	U	0.00054	0.0050	mg/l		8260B	10/06/08	1
1,1-Dichloroethane	U	0.00031	0.0010	mg/l		8260B	10/06/08	1
1,2-Dichloroethane	U	0.00027	0.0010	mg/l		8260B	10/06/08	1
1,1-Dichloroethene	U	0.00050	0.0010	mg/l		8260B	10/06/08	1
cis-1,2-Dichloroethene	0.020	0.00038	0.0010	mg/l		8260B	10/06/08	1
trans-1,2-Dichloroethene	0.0011	0.00030	0.0010	mg/l		8260B	10/06/08	1
1,2-Dichloropropane	U	0.00052	0.0010	mg/l		8260B	10/06/08	1
1,1-Dichloropropene	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
1,3-Dichloropropene	U	0.00023	0.0010	mg/l		8260B	10/06/08	1
cis-1,3-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	10/06/08	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	10/06/08	1
2,2-Dichloropropane	U	0.00025	0.0010	mg/l		8260B	10/06/08	1
Di-isopropyl ether	0.00099	0.00025	0.0010	mg/l	J	8260B	10/06/08	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
Hexachloro-1,3-butadiene	U	0.00049	0.0010	mg/l		8260B	10/06/08	1
Isopropylbenzene	U	0.00019	0.0010	mg/l		8260B	10/06/08	1

U - ND (Not Detected)

MDL - Minimum Detection Limit - LOD - SQL (TRRP)

RDL - Reported Detection Limit - LOQ - PQL - EQL - MQL (TRRP)

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Page 6 of 11

14 of 41

EPAHQ082001329



# ENVIRONMENTAL SCIENCE CORP.

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Matt Monroe  
EnviroTest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.  
Sample ID : MW-16  
Collected By : J. Boyle  
Collection Date : 09/29/08 15:51

ESC Sample # : L367699-03

Site ID :

Project # : HOU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
p-Isopropyltoluene	U	0.00021	0.0010	mg/l		8260B	10/06/08	1
2-Butanone (MEK)	U	0.0045	0.010	mg/l		8260B	10/06/08	1
Methylene Chloride	U	0.0040	0.0050	mg/l		8260B	10/06/08	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.010	mg/l		8260B	10/06/08	1
NA Methyl tert-butyl ether	0.064	0.00019	0.0010	mg/l		8260B	10/06/08	1
Naphthalene	U	0.0040	0.0050	mg/l		8260B	10/06/08	1
n-Propylbenzene	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
Styrene	U	0.00038	0.0010	mg/l		8260B	10/06/08	1
1,1,1,2-Tetrachloroethane	U	0.00040	0.0010	mg/l		8260B	10/06/08	1
1,1,2,2-Tetrachloroethane	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
<0.7 1,1,2-Trichloro-1,2,2-trifluoro	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
Tetrachloroethene	0.10	0.00029	0.0010	mg/l		8260B	10/06/08	1
Toluene	U	0.00027	0.0050	mg/l		8260B	10/06/08	1
1,2,3-Trichlorobenzene	U	0.00024	0.0010	mg/l		8260B	10/06/08	1
1,2,4-Trichlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/06/08	1
1,1,1-Trichloroethane	U	0.00027	0.0010	mg/l		8260B	10/06/08	1
1,1,2-Trichloroethane	U	0.00045	0.0010	mg/l		8260B	10/06/08	1
<0.5 Trichloroethene	0.029	0.00037	0.0010	mg/l		8260B	10/06/08	1
Trichlorofluoromethane	U	0.00029	0.0050	mg/l		8260B	10/06/08	1
1,2,3-Trichloropropane	U	0.00036	0.0010	mg/l		8260B	10/06/08	1
1,2,4-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/06/08	1
1,2,3-Trimethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/06/08	1
1,3,5-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/06/08	1
<0.2 Vinyl chloride	0.0020	0.00027	0.0010	mg/l		8260B	10/06/08	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	10/06/08	1
Surrogate Recovery								
Toluene-d8	107.			% Rec.		8260B	10/06/08	1
Dibromofluoromethane	110.			% Rec.		8260B	10/06/08	1
4-Bromofluorobenzene	108.			% Rec.		8260B	10/06/08	1

U - ND (Not Detected)

MDL - Minimum Detection Limit - LOD - SQL(TRRP)

RDL - Reported Detection Limit - LOQ - PQL - EQL - MQL(TRRP)

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Page 7 of 11



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.

ESC Sample # : L367699-04

Sample ID : FIELD BLANK

Site ID :

Collected By : J. Boyle  
Collection Date : 09/29/08 13:00

Project # : HOU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
Volatile Organics								
Acetone	U	0.0089	0.050	mg/l		8260B	10/04/08	1
Acrolein	U	0.014	0.050	mg/l	J4	8260B	10/04/08	1
Acrylonitrile	U	0.0017	0.010	mg/l		8260B	10/04/08	1
Benzene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
Bromobenzene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
Bromodichloromethane	U	0.00037	0.0010	mg/l		8260B	10/04/08	1
Bromoform	U	0.00051	0.0010	mg/l		8260B	10/04/08	1
Bromomethane	U	0.00089	0.0050	mg/l		8260B	10/04/08	1
n-Butylbenzene	U	0.00023	0.0010	mg/l		8260B	10/04/08	1
sec-Butylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
tert-Butylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
Carbon tetrachloride	U	0.00031	0.0010	mg/l		8260B	10/04/08	1
Chlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
Chlorodibromomethane	U	0.00042	0.0010	mg/l		8260B	10/04/08	1
Chloroethane	U	0.00086	0.0050	mg/l		8260B	10/04/08	1
2-Chloroethyl vinyl ether	U	0.0014	0.050	mg/l		8260B	10/04/08	1
Chloroform	U	0.0050	0.0050	mg/l		8260B	10/04/08	1
Chloromethane	U	0.00025	0.0025	mg/l		8260B	10/04/08	1
2-Chlorotoluene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
4-Chlorotoluene	U	0.00016	0.0010	mg/l		8260B	10/04/08	1
1,2-Dibromo-3-Chloropropane	U	0.00048	0.0050	mg/l		8260B	10/04/08	1
1,2-Dibromoethane	U	0.00048	0.0010	mg/l		8260B	10/04/08	1
Dibromomethane	U	0.00028	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichlorobenzene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
1,3-Dichlorobenzene	U	0.00019	0.0010	mg/l		8260B	10/04/08	1
1,4-Dichlorobenzene	U	0.00030	0.0010	mg/l		8260B	10/04/08	1
Dichlorodifluoromethane	U	0.00054	0.0050	mg/l		8260B	10/04/08	1
1,1-Dichloroethane	U	0.00031	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichloroethane	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
1,1-Dichloroethene	U	0.00050	0.0010	mg/l		8260B	10/04/08	1
cis-1,2-Dichloroethene	U	0.00038	0.0010	mg/l		8260B	10/04/08	1
trans-1,2-Dichloroethene	U	0.00030	0.0010	mg/l		8260B	10/04/08	1
1,2-Dichloropropene	U	0.00052	0.0010	mg/l		8260B	10/04/08	1
1,1-Dichloropropene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,3-Dichloropropene	U	0.00023	0.0010	mg/l		8260B	10/04/08	1
cis-1,3-Dichloropropene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
trans-1,3-Dichloropropene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
2,2-Dichloropropane	U	0.00025	0.0010	mg/l		8260B	10/04/08	1
Di-isopropyl ether	U	0.00025	0.0010	mg/l		8260B	10/04/08	1
Ethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Hexachloro-1,3-butadiene	U	0.00049	0.0010	mg/l		8260B	10/04/08	1
Isopropylbenzene	U	0.00019	0.0010	mg/l		8260B	10/04/08	1

U - ND (Not Detected)

MDL - Minimum Detection Limit - LOD - SQL(TRRP)

RDL - Reported Detection Limit - LOQ - PQL - EQL - MQL(TRRP)

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Page 8 of 11



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Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Matt Monroe  
Envirotest  
3902 Braxton St.  
Houston, TX 77063

October 07, 2008

Date Received : October 01, 2008  
Description : Woodlake Square Off-Site Delin.

ESC Sample # : L367699-04

Sample ID : FIELD BLANK

Site ID :

Collected By : J. Boyle  
Collection Date : 09/29/08 13:00

Project # : HOU 080109

Parameter	Result	MDL	RDL	Units	Q	Method	Date	Dil.
p-Isopropyltoluene	U	0.00021	0.0010	mg/l		8260B	10/04/08	1
2-Butanone (MEK)	U	0.0045	0.010	mg/l		8260B	10/04/08	1
Methylene Chloride	U	0.0040	0.0050	mg/l		8260B	10/04/08	1
4-Methyl-2-pentanone (MIBK)	U	0.0014	0.010	mg/l		8260B	10/04/08	1
Methyl tert-butyl ether	U	0.00019	0.0010	mg/l		8260B	10/04/08	1
Naphthalene	U	0.0040	0.0050	mg/l		8260B	10/04/08	1
n-Propylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Styrene	U	0.00038	0.0010	mg/l		8260B	10/04/08	1
1,1,1,2-Tetrachloroethane	U	0.00040	0.0010	mg/l		8260B	10/04/08	1
1,1,2,2-Tetrachloroethane	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,1,2-Trichloro-1,2,2-Trifluoro	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
Tetrachloroethene	U	0.00029	0.0010	mg/l		8260B	10/04/08	1
Toluene	U	0.00027	0.0050	mg/l		8260B	10/04/08	1
1,2,3-Trichlorobenzene	U	0.00024	0.0010	mg/l		8260B	10/04/08	1
1,2,4-Trichlorobenzene	U	0.00026	0.0010	mg/l		8260B	10/04/08	1
1,1,1-Trichloroethane	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
1,1,2-Trichloroethane	U	0.00045	0.0010	mg/l		8260B	10/04/08	1
Trichloroethene	U	0.00037	0.0010	mg/l		8260B	10/04/08	1
Trichlorofluoromethane	U	0.00029	0.0050	mg/l		8260B	10/04/08	1
1,2,3-Trichloropropane	U	0.00036	0.0010	mg/l		8260B	10/04/08	1
1,2,4-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
1,2,3-Trimethylbenzene	U	0.00022	0.0010	mg/l		8260B	10/04/08	1
1,3,5-Trimethylbenzene	U	0.00020	0.0010	mg/l		8260B	10/04/08	1
Vinyl chloride	U	0.00027	0.0010	mg/l		8260B	10/04/08	1
Xylenes, Total	U	0.00086	0.0030	mg/l		8260B	10/04/08	1
Surrogate Recovery								
Toluene-d8	99.8			% Rec.		8260B	10/04/08	1
Dibromofluoromethane	105.			% Rec.		8260B	10/04/08	1
4-Bromofluorobenzene	103.			% Rec.		8260B	10/04/08	1

U - ND (Not Detected)

MDL - Minimum Detection Limit - LOD - SQL(TRRP)

RDL - Reported Detection Limit - LOQ - PQL - EQL - MQL(TRRP)

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Page 9 of 11

Attachment A  
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L367699-01	Acrolein	J4
	Tetrachloroethene	E
L367699-02	Acrolein	J4
	Di-isopropyl ether	J
	2-Butanone (MEK)	J
L367699-03	Di-isopropyl ether	J
L367699-04	Acrolein	J4

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAP. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
10/07/08 at 17:54:49

TSR Signing Reports: 134  
R5 - Desired TAT

Client wants pH reported on all SS requesting metals per JB Arsenic H2O log method 6020

Sample: L367699-01 Account: ENVTESTX Received: 10/01/08 07:45 Due Date: 10/08/08 00:00 RPT Date: 10/07/08 11:43

Sample: L367699-02 Account: ENVTESTX Received: 10/01/08 07:45 Due Date: 10/08/08 00:00 RPT Date: 10/07/08 11:43

Sample: L367699-03 Account: ENVTESTX Received: 10/01/08 07:45 Due Date: 10/08/08 00:00 RPT Date: 10/07/08 11:43

Sample: L367699-04 Account: ENVTESTX Received: 10/01/08 07:45 Due Date: 10/08/08 00:00 RPT Date: 10/07/08 11:43



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Method Blank

Analyte	CAS	PQL	MDL
1,1,1,2-Tetrachloroethane	630-20-6	<0.001	<0.0003
1,1,1-Trichloroethane	71-55-6	<0.001	<0.0003
1,1,2,2-Tetrachloroethane	79-34-5	<0.001	<0.0003
1,1,2-Trichloroethane	79-00-5	<0.001	<0.0003
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	<0.001	<0.0003
1,1-Dichloroethane	75-34-3	<0.001	<0.0003
1,1-Dichloroethene	75-35-4	<0.001	<0.0003
1,1-Dichloropropene	563-58-6	<0.001	<0.0003
1,2,3-Trichlorobenzene	87-61-6	<0.001	<0.0003
1,2,3-Trichloropropane	96-18-4	<0.001	<0.0003
1,2,3-Trimethylbenzene	526-73-8	<0.001	<0.0003
1,2,4-Trichlorobenzene	120-82-1	<0.001	<0.0003
1,2,4-Trimethylbenzene	95-63-6	<0.001	<0.0003
1,2-Dibromo-3-Chloropropane	96-12-8	<0.005	<0.0016
1,2-Dibromoethane	106-93-4	<0.001	<0.0003
1,2-Dichlorobenzene	95-50-1	<0.001	<0.0003
1,2-Dichloroethane	107-06-2	<0.001	<0.0003
1,2-Dichloropropane	78-87-5	<0.001	<0.0003
1,3,5-Trimethylbenzene	108-67-8	<0.001	<0.0003
1,3-Dichlorobenzene	541-73-1	<0.001	<0.0003
1,3-Dichloropropane	142-28-9	<0.001	<0.0003
1,4-Dichlorobenzene	106-46-7	<0.001	<0.0003
2,2-Dichloropropane	594-20-7	<0.001	<0.0003
2-Butanone (MEK)	78-93-3	<0.010	<0.0033
2-Chloroethyl vinyl ether	110-75-8	<0.001	<0.0003
2-Chlorotoluene	95-49-8	<0.001	<0.0003
4-Chlorotoluene	106-43-4	<0.001	<0.0003
4-Methyl-2-pentanone (MIBK)	108-10-1	<0.010	<0.0033
Acetone	67-64-1	<0.050	<0.0165
Acrolein	107-02-8	<0.050	<0.0165
Acrylonitrile	107-13-1	<0.010	<0.0033
Benzene	71-43-2	<0.001	<0.0003
Bromobenzene	108-86-1	<0.001	<0.0003
Bromodichloromethane	75-27-4	<0.001	<0.0003



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

#### Method Blank

Analyte	CAS	PQL	MDL
Bromoform	75-25-2	<0.001	<0.0003
Bromomethane	74-83-9	<0.005	<0.0016
Carbon tetrachloride	56-23-5	<0.001	<0.0003
Chlorobenzene	108-90-7	<0.001	<0.0003
Chlorodibromomethane	124-48-1	<0.001	<0.0003
Chloroethane	75-00-3	<0.001	<0.0003
Chloroform	67-66-3	<0.005	<0.0016
Chloromethane	74-87-3	<0.001	<0.0003
cis-1,2-Dichloroethene	156-59-2	<0.001	<0.0003
cis-1,3-Dichloropropene	10061-01-5	<0.001	<0.0003
Di-isopropyl ether	108-20-3	<0.001	<0.0003
Dibromomethane	74-95-3	<0.001	<0.0003
Dichlorodifluoromethane	75-71-8	<0.005	<0.0016
Ethylbenzene	100-41-4	<0.001	<0.0003
Hexachloro-1,3-butadiene	87-68-3	<0.001	<0.0003
Isopropylbenzene	98-82-8	<0.001	<0.0003
Methyl tert-butyl ether	1634-04-4	<0.001	<0.0003
Methylene Chloride	75-09-2	<0.005	<0.0016
n-Butylbenzene	104-51-8	<0.001	<0.0003
n-Propylbenzene	103-65-1	<0.001	<0.0003
Naphthalene	91-20-3	<0.005	<0.0016
p-Isopropyltoluene	99-87-6	<0.001	<0.0003
sec-Butylbenzene	135-98-8	<0.001	<0.0003
Styrene	100-42-5	<0.001	<0.0003
tert-Butylbenzene	98-06-6	<0.001	<0.0003
Tetrachloroethene	127-18-4	<0.001	<0.0003
Toluene	108-88-3	<0.005	<0.0016
trans-1,2-Dichloroethene	156-60-5	<0.001	<0.0003
trans-1,3-Dichloropropene	10061-02-6	<0.001	<0.0003
Trichloroethene	79-01-6	<0.001	<0.0003
Trichlorofluoromethane	75-69-4	<0.005	<0.0016
Vinyl chloride	75-01-4	<0.001	<0.0003
Xylenes, Total	1330-20-7	<0.003	<0.0010



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

#### Method Blank

Analyte	CAS	PQL	MDL
1,1,1,2-Tetrachloroethane	630-20-6	<0.001	<0.0003
1,1,1-Trichloroethane	71-55-6	<0.001	<0.0003
1,1,2,2-Tetrachloroethane	79-34-5	<0.001	<0.0003
1,1,2-Trichloroethane	79-00-5	<0.001	<0.0003
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	<0.001	<0.0003
1,1-Dichloroethane	75-34-3	<0.001	<0.0003
1,1-Dichloroethene	75-35-4	<0.001	<0.0003
1,1-Dichloropropene	563-58-6	<0.001	<0.0003
1,2,3-Trichlorobenzene	87-61-6	<0.001	<0.0003
1,2,3-Trichloropropane	96-18-4	<0.001	<0.0003
1,2,3-Trimethylbenzene	526-73-8	<0.001	<0.0003
1,2,4-Trichlorobenzene	120-82-1	<0.001	<0.0003
1,2,4-Trimethylbenzene	95-63-6	<0.001	<0.0003
1,2-Dibromo-3-Chloropropane	96-12-8	<0.005	<0.0016
1,2-Dibromoethane	106-93-4	<0.001	<0.0003
1,2-Dichlorobenzene	95-50-1	<0.001	<0.0003
1,2-Dichloroethane	107-06-2	<0.001	<0.0003
1,2-Dichloropropane	78-87-5	<0.001	<0.0003
1,3,5-Trimethylbenzene	108-67-8	<0.001	<0.0003
1,3-Dichlorobenzene	541-73-1	<0.001	<0.0003
1,3-Dichloropropane	142-28-9	<0.001	<0.0003
1,4-Dichlorobenzene	106-46-7	<0.001	<0.0003
2,2-Dichloropropane	594-20-7	<0.001	<0.0003
2-Butanone (MEK)	78-93-3	<0.010	<0.0033
2-Chloroethyl vinyl ether	110-75-8	<0.001	<0.0003
2-Chlorotoluene	95-49-8	<0.001	<0.0003
4-Chlorotoluene	106-43-4	<0.001	<0.0003
4-Methyl-2-pentanone (MIBK)	108-10-1	<0.010	<0.0033
Acetone	67-64-1	<0.050	<0.0165
Acrolein	107-02-8	<0.050	<0.0165
Acrylonitrile	107-13-1	<0.010	<0.0033
Benzene	71-43-2	<0.001	<0.0003
Bromobenzene	108-86-1	<0.001	<0.0003
Bromodichloromethane	75-27-4	<0.001	<0.0003



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

#### Method Blank

Analyte	CAS	PQL	MDL
Bromoform	75-25-2	<0.001	<0.0003
Bromomethane	74-83-9	<0.005	<0.0016
Carbon tetrachloride	56-23-5	<0.001	<0.0003
Chlorobenzene	108-90-7	<0.001	<0.0003
Chlorodibromomethane	124-48-1	<0.001	<0.0003
Chloroethane	75-00-3	<0.001	<0.0003
Chloroform	67-66-3	<0.005	<0.0016
Chloromethane	74-87-3	<0.001	<0.0003
cis-1,2-Dichloroethene	156-59-2	<0.001	<0.0003
cis-1,3-Dichloropropene	10061-01-5	<0.001	<0.0003
Di-isopropyl ether	108-20-3	<0.001	<0.0003
Dibromomethane	74-95-3	<0.001	<0.0003
Dichlorodifluoromethane	75-71-8	<0.005	<0.0016
Ethylbenzene	100-41-4	<0.001	<0.0003
Hexachloro-1,3-butadiene	87-68-3	<0.001	<0.0003
Isopropylbenzene	98-82-8	<0.001	<0.0003
Methyl tert-butyl ether	1634-04-4	<0.001	<0.0003
Methylene Chloride	75-09-2	<0.005	<0.0016
n-Butylbenzene	104-51-8	<0.001	<0.0003
n-Propylbenzene	103-65-1	<0.001	<0.0003
Naphthalene	91-20-3	<0.005	<0.0016
p-Isopropyltoluene	99-87-6	<0.001	<0.0003
sec-Butylbenzene	135-98-8	<0.001	<0.0003
Styrene	100-42-5	<0.001	<0.0003
tert-Butylbenzene	98-06-6	<0.001	<0.0003
Tetrachloroethene	127-18-4	<0.001	<0.0003
Toluene	108-88-3	<0.005	<0.0016
trans-1,2-Dichloroethene	156-60-5	<0.001	<0.0003
trans-1,3-Dichloropropene	10061-02-6	<0.001	<0.0003
Trichloroethene	79-01-6	<0.001	<0.0003
Trichlorofluoromethane	75-69-4	<0.005	<0.0016
Vinyl chloride	75-01-4	<0.001	<0.0003
Xylenes, Total	1330-20-7	<0.003	<0.0010



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
1,1,1,2-Tetrachloroethane	0.050	0.055	111	75 - 134	
1,1,1-Trichloroethane	0.050	0.052	104	67 - 137	
1,1,2,2-Tetrachloroethane	0.050	0.051	103	72 - 128	
1,1,2-Trichloroethane	0.050	0.053	106	79 - 123	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.050	0.056	111	51 - 149	
1,1-Dichloroethane	0.050	0.050	99.0	67 - 133	
1,1-Dichloroethene	0.050	0.043	85.6	60 - 130	
1,1-Dichloropropene	0.050	0.050	101	68 - 132	
1,2,3-Trichlorobenzene	0.050	0.052	104	63 - 138	
1,2,3-Trichloropropane	0.050	0.051	101	68 - 130	
1,2,3-Trimethylbenzene	0.050	0.051	103	70 - 127	
1,2,4-Trichlorobenzene	0.050	0.051	103	65 - 137	
1,2,4-Trimethylbenzene	0.050	0.057	113	72 - 135	
1,2-Dibromo-3-Chloropropane	0.050	0.050	99.4	55 - 134	
1,2-Dibromooethane	0.050	0.047	93.3	75 - 126	
1,2-Dichlorobenzene	0.050	0.052	103	75 - 122	
1,2-Dichloroethane	0.050	0.052	104	63 - 137	
1,2-Dichloropropane	0.050	0.053	106	74 - 122	
1,3,5-Trimethylbenzene	0.050	0.056	112	73 - 134	
1,3-Dichlorobenzene	0.050	0.054	107	73 - 131	
1,3-Dichloropropane	0.050	0.052	104	77 - 119	
1,4-Dichlorobenzene	0.050	0.050	99.4	70 - 121	
2,2-Dichloropropane	0.050	0.055	109	46 - 151	
2-Butanone (MEK)	0.250	0.248	99.1	53 - 132	
2-Chloroethyl vinyl ether	0.250	0.245	97.9	0 - 171	
2-Chlorotoluene	0.050	0.053	106	74 - 128	
4-Chlorotoluene	0.050	0.054	107	74 - 130	
4-Methyl-2-pentanone (MIBK)	0.250	0.238	95.2	60 - 142	
Acetone	0.250	0.230	91.8	48 - 134	
Acrolein	0.250	0.457	183	6 - 182	J4
Acrylonitrile	0.250	0.270	108	60 - 140	
Benzene	0.050	0.049	98.7	67 - 126	
Bromobenzene	0.050	0.051	102	76 - 123	
Bromodichloromethane	0.050	0.056	113	68 - 133	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Bromoform	0.050	0.048	96.1	60 - 139	
Bromomethane	0.050	0.061	123	45 - 175	
Carbon tetrachloride	0.050	0.054	108	64 - 141	
Chlorobenzene	0.050	0.054	108	77 - 125	
Chlorodibromomethane	0.050	0.049	97.9	73 - 138	
Chloroethane	0.050	0.058	115	49 - 155	
Chloroform	0.050	0.051	101	66 - 126	
Chloromethane	0.050	0.051	102	45 - 152	
cis-1,2-Dichloroethene	0.050	0.054	108	72 - 128	
cis-1,3-Dichloropropene	0.050	0.053	107	73 - 131	
Di-isopropyl ether	0.050	0.055	111	63 - 139	
Dibromomethane	0.050	0.052	104	73 - 125	
Dichlorodifluoromethane	0.050	0.046	92.8	39 - 189	
Ethylbenzene	0.050	0.054	108	76 - 129	
Hexachloro-1,3-butadiene	0.050	0.053	106	67 - 135	
Isopropylbenzene	0.050	0.056	113	73 - 132	
Methyl tert-butyl ether	0.050	0.057	114	51 - 142	
Methylene Chloride	0.050	0.048	96.5	64 - 125	
n-Butylbenzene	0.050	0.051	102	63 - 142	
n-Propylbenzene	0.050	0.052	104	71 - 132	
Naphthalene	0.050	0.051	102	56 - 145	
p-Isopropyltoluene	0.050	0.056	113	68 - 138	
sec-Butylbenzene	0.050	0.055	109	70 - 135	
Styrene	0.050	0.049	98.2	78 - 130	
tert-Butylbenzene	0.050	0.058	115	72 - 134	
Tetrachloroethene	0.050	0.051	102	67 - 135	
Toluene	0.050	0.049	98.0	72 - 122	
trans-1,2-Dichloroethene	0.050	0.048	96.1	67 - 129	
trans-1,3-Dichloropropene	0.050	0.048	95.1	66 - 137	
Trichloroethene	0.050	0.051	102	74 - 126	
Trichlorofluoromethane	0.050	0.056	111	54 - 156	
Vinyl chloride	0.050	0.056	111	55 - 153	
Xylenes, Total	0.150	0.166	111	75 - 128	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
1,1,1,2-Tetrachloroethane	0.050	0.056	112	75 - 134	
1,1,1-Trichloroethane	0.050	0.049	98.3	67 - 137	
1,1,2,2-Tetrachloroethane	0.050	0.053	106	72 - 128	
1,1,2-Trichloroethane	0.050	0.054	108	79 - 123	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.050	0.053	106	51 - 149	
1,1-Dichloroethane	0.050	0.047	95.0	67 - 133	
1,1-Dichloroethene	0.050	0.040	80.2	60 - 130	
1,1-Dichloropropene	0.050	0.048	96.7	68 - 132	
1,2,3-Trichlorobenzene	0.050	0.051	103	63 - 138	
1,2,3-Trichloropropane	0.050	0.052	104	68 - 130	
1,2,3-Trimethylbenzene	0.050	0.052	104	70 - 127	
1,2,4-Trichlorobenzene	0.050	0.051	101	65 - 137	
1,2,4-Trimethylbenzene	0.050	0.056	112	72 - 135	
1,2-Dibromo-3-Chloropropane	0.050	0.052	103	55 - 134	
1,2-Dibromoethane	0.050	0.047	93.6	75 - 126	
1,2-Dichlorobenzene	0.050	0.053	105	75 - 122	
1,2-Dichloroethane	0.050	0.050	100	63 - 137	
1,2-Dichloropropane	0.050	0.052	104	74 - 122	
1,3,5-Trimethylbenzene	0.050	0.055	110	73 - 134	
1,3-Dichlorobenzene	0.050	0.052	104	73 - 131	
1,3-Dichloropropane	0.050	0.052	105	77 - 119	
1,4-Dichlorobenzene	0.050	0.051	101	70 - 121	
2,2-Dichloropropane	0.050	0.052	104	46 - 151	
2-Butanone (MEK)	0.250	0.243	97.1	53 - 132	
2-Chloroethyl vinyl ether	0.250	0.250	100	0 - 171	
2-Chlorotoluene	0.050	0.053	106	74 - 128	
4-Chlorotoluene	0.050	0.053	107	74 - 130	
4-Methyl-2-pentanone (MIBK)	0.250	0.248	99.2	60 - 142	
Acetone	0.250	0.221	88.5	48 - 134	
Acrolein	0.250	0.439	176	6 - 182	
Acrylonitrile	0.250	0.264	106	60 - 140	
Benzene	0.050	0.048	95.6	67 - 126	
Bromobenzene	0.050	0.051	102	76 - 123	
Bromodichloromethane	0.050	0.057	114	68 - 133	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Bromoform	0.050	0.049	98.3	60 - 139	
Bromomethane	0.050	0.057	114	45 - 175	
Carbon tetrachloride	0.050	0.051	102	64 - 141	
Chlorobenzene	0.050	0.054	108	77 - 125	
Chlorodibromomethane	0.050	0.049	98.5	73 - 138	
Chloroethane	0.050	0.055	110	49 - 155	
Chloroform	0.050	0.049	98.9	66 - 126	
Chloromethane	0.050	0.047	94.9	45 - 152	
cis-1,2-Dichloroethene	0.050	0.052	103	72 - 128	
cis-1,3-Dichloropropene	0.050	0.053	107	73 - 131	
Di-isopropyl ether	0.050	0.055	109	63 - 139	
Dibromomethane	0.050	0.052	103	73 - 125	
Dichlorodifluoromethane	0.050	0.043	86.5	39 - 189	
Ethylbenzene	0.050	0.054	109	76 - 129	
Hexachloro-1,3-butadiene	0.050	0.053	105	67 - 135	
Isopropylbenzene	0.050	0.056	111	73 - 132	
Methyl tert-butyl ether	0.050	0.055	110	51 - 142	
Methylene Chloride	0.050	0.047	93.1	64 - 125	
n-Butylbenzene	0.050	0.051	103	63 - 142	
n-Propylbenzene	0.050	0.052	104	71 - 132	
Naphthalene	0.050	0.051	103	56 - 145	
p-Isopropyltoluene	0.050	0.055	110	68 - 138	
sec-Butylbenzene	0.050	0.054	108	70 - 135	
Styrene	0.050	0.049	98.7	78 - 130	
tert-Butylbenzene	0.050	0.056	113	72 - 134	
Tetrachloroethene	0.050	0.050	101	67 - 135	
Toluene	0.050	0.049	98.0	72 - 122	
trans-1,2-Dichloroethene	0.050	0.046	92.2	67 - 129	
trans-1,3-Dichloropropene	0.050	0.049	97.1	66 - 137	
Trichloroethene	0.050	0.051	102	74 - 126	
Trichlorofluoromethane	0.050	0.053	107	54 - 156	
Vinyl chloride	0.050	0.051	103	55 - 153	
Xylenes, Total	0.150	0.166	111	75 - 128	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
1,1,1,2-Tetrachloroethane	0.050	0.052	104	75 - 134	
1,1,1-Trichloroethane	0.050	0.052	103	67 - 137	
1,1,2,2-Tetrachloroethane	0.050	0.054	109	72 - 128	
1,1,2-Trichloroethane	0.050	0.050	100	79 - 123	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.050	0.046	92.3	51 - 149	
1,1-Dichloroethane	0.050	0.052	104	67 - 133	
1,1-Dichloroethene	0.050	0.043	85.1	60 - 130	
1,1-Dichloropropene	0.050	0.048	95.3	68 - 132	
1,2,3-Trichlorobenzene	0.050	0.051	102	63 - 138	
1,2,3-Trichloropropane	0.050	0.053	106	68 - 130	
1,2,3-Trimethylbenzene	0.050	0.043	86.7	70 - 127	
1,2,4-Trichlorobenzene	0.050	0.052	103	65 - 137	
1,2,4-Trimethylbenzene	0.050	0.048	95.5	72 - 135	
1,2-Dibromo-3-Chloropropane	0.050	0.050	100	55 - 134	
1,2-Dibromoethane	0.050	0.050	101	75 - 126	
1,2-Dichlorobenzene	0.050	0.046	91.8	75 - 122	
1,2-Dichloroethane	0.050	0.052	103	63 - 137	
1,2-Dichloropropane	0.050	0.051	102	74 - 122	
1,3,5-Trimethylbenzene	0.050	0.048	96.7	73 - 134	
1,3-Dichlorobenzene	0.050	0.048	95.4	73 - 131	
1,3-Dichloropropane	0.050	0.048	95.0	77 - 119	
1,4-Dichlorobenzene	0.050	0.043	85.7	70 - 121	
2,2-Dichloropropane	0.050	0.050	100	46 - 151	
2-Butanone (MEK)	0.250	0.284	114	53 - 132	
2-Chloroethyl vinyl ether	0.250	0.323	129	0 - 171	
2-Chlorotoluene	0.050	0.048	95.5	74 - 128	
4-Chlorotoluene	0.050	0.048	95.5	74 - 130	
4-Methyl-2-pentanone (MIBK)	0.250	0.301	120	60 - 142	
Acetone	0.250	0.253	101	48 - 134	
Acrolein	0.250	0.266	106	6 - 182	
Acrylonitrile	0.250	0.297	119	60 - 140	
Benzene	0.050	0.050	100	67 - 126	
Bromobenzene	0.050	0.048	95.9	76 - 123	
Bromodichloromethane	0.050	0.056	111	68 - 133	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Bromoform	0.050	0.056	112	60 - 139	
Bromomethane	0.050	0.048	95.3	45 - 175	
Carbon tetrachloride	0.050	0.055	111	64 - 141	
Chlorobenzene	0.050	0.048	96.6	77 - 125	
Chlorodibromomethane	0.050	0.054	107	73 - 138	
Chloroethane	0.050	0.044	88.1	49 - 155	
Chloroform	0.050	0.053	106	66 - 126	
Chloromethane	0.050	0.047	93.1	45 - 152	
cis-1,2-Dichloroethene	0.050	0.053	107	72 - 128	
cis-1,3-Dichloropropene	0.050	0.054	107	73 - 131	
Di-isopropyl ether	0.050	0.055	110	63 - 139	
Dibromomethane	0.050	0.049	98.9	73 - 125	
Dichlorodifluoromethane	0.050	0.041	81.8	39 - 189	
Ethylbenzene	0.050	0.048	95.5	76 - 129	
Hexachloro-1,3-butadiene	0.050	0.044	88.9	67 - 135	
Isopropylbenzene	0.050	0.050	99.3	73 - 132	
Methyl tert-butyl ether	0.050	0.046	92.5	51 - 142	
Methylene Chloride	0.050	0.051	102	64 - 125	
n-Butylbenzene	0.050	0.047	93.1	63 - 142	
n-Propylbenzene	0.050	0.048	96.7	71 - 132	
Naphthalene	0.050	0.046	92.4	56 - 145	
p-Isopropyltoluene	0.050	0.051	101	68 - 138	
sec-Butylbenzene	0.050	0.050	99.7	70 - 135	
Styrene	0.050	0.053	106	78 - 130	
tert-Butylbenzene	0.050	0.053	106	72 - 134	
Tetrachloroethene	0.050	0.043	87.0	67 - 135	
Toluene	0.050	0.047	94.6	72 - 122	
trans-1,2-Dichloroethene	0.050	0.047	94.7	67 - 129	
trans-1,3-Dichloropropene	0.050	0.054	109	66 - 137	
Trichloroethene	0.050	0.047	93.3	74 - 126	
Trichlorofluoromethane	0.050	0.049	98.3	54 - 156	
Vinyl chloride	0.050	0.046	91.7	55 - 153	
Xylenes, Total	0.150	0.141	94.1	75 - 128	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
1,1,1,2-Tetrachloroethane	0.050	0.051	101	75 - 134	
1,1,1-Trichloroethane	0.050	0.050	101	67 - 137	
1,1,2,2-Tetrachloroethane	0.050	0.052	103	72 - 128	
1,1,2-Trichloroethane	0.050	0.049	98.3	79 - 123	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.050	0.044	88.0	51 - 149	
1,1-Dichloroethane	0.050	0.052	104	67 - 133	
1,1-Dichloroethene	0.050	0.050	99.4	60 - 130	
1,1-Dichloropropene	0.050	0.047	94.0	68 - 132	
1,2,3-Trichlorobenzene	0.050	0.051	101	63 - 138	
1,2,3-Trichloropropane	0.050	0.051	102	68 - 130	
1,2,3-Trimethylbenzene	0.050	0.042	84.2	70 - 127	
1,2,4-Trichlorobenzene	0.050	0.052	103	65 - 137	
1,2,4-Trimethylbenzene	0.050	0.046	92.2	72 - 135	
1,2-Dibromo-3-Chloropropane	0.050	0.049	97.8	55 - 134	
1,2-Dibromoethane	0.050	0.049	98.0	75 - 126	
1,2-Dichlorobenzene	0.050	0.045	89.1	75 - 122	
1,2-Dichloroethane	0.050	0.052	105	63 - 137	
1,2-Dichloropropane	0.050	0.052	104	74 - 122	
1,3,5-Trimethylbenzene	0.050	0.046	92.5	73 - 134	
1,3-Dichlorobenzene	0.050	0.047	93.2	73 - 131	
1,3-Dichloropropane	0.050	0.046	91.9	77 - 119	
1,4-Dichlorobenzene	0.050	0.042	84.2	70 - 121	
2,2-Dichloropropane	0.050	0.049	97.2	46 - 151	
2-Butanone (MEK)	0.250	0.278	111	53 - 132	
2-Chloroethyl vinyl ether	0.250	0.293	117	0 - 171	
2-Chlorotoluene	0.050	0.046	91.8	74 - 128	
4-Chlorotoluene	0.050	0.047	94.2	74 - 130	
4-Methyl-2-pentanone (MIBK)	0.250	0.297	119	60 - 142	
Acetone	0.250	0.270	108	48 - 134	
Acrolein	0.250	0.259	104	6 - 182	
Acrylonitrile	0.250	0.299	120	60 - 140	
Benzene	0.050	0.049	98.7	67 - 126	
Bromobenzene	0.050	0.047	93.2	76 - 123	
Bromodichloromethane	0.050	0.055	109	68 - 133	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Bromoform	0.050	0.055	110	60 - 139	
Bromomethane	0.050	0.048	95.4	45 - 175	
Carbon tetrachloride	0.050	0.055	109	64 - 141	
Chlorobenzene	0.050	0.046	92.1	77 - 125	
Chlorodibromomethane	0.050	0.052	104	73 - 138	
Chloroethane	0.050	0.041	82.8	49 - 155	
Chloroform	0.050	0.053	105	66 - 126	
Chloromethane	0.050	0.046	91.5	45 - 152	
cis-1,2-Dichloroethene	0.050	0.053	106	72 - 128	
cis-1,3-Dichloropropene	0.050	0.053	105	73 - 131	
Di-isopropyl ether	0.050	0.055	111	63 - 139	
Dibromomethane	0.050	0.048	96.6	73 - 125	
Dichlorodifluoromethane	0.050	0.040	80.1	39 - 189	
Ethylbenzene	0.050	0.046	91.5	76 - 129	
Hexachloro-1,3-butadiene	0.050	0.042	84.7	67 - 135	
Isopropylbenzene	0.050	0.047	94.9	73 - 132	
Methyl tert-butyl ether	0.050	0.042	83.4	51 - 142	
Methylene Chloride	0.050	0.050	101	64 - 125	
n-Butylbenzene	0.050	0.045	89.7	63 - 142	
n-Propylbenzene	0.050	0.046	92.4	71 - 132	
Naphthalene	0.050	0.045	89.7	56 - 145	
p-Isopropyltoluene	0.050	0.049	98.9	68 - 138	
sec-Butylbenzene	0.050	0.048	95.8	70 - 135	
Styrene	0.050	0.051	102	78 - 130	
tert-Butylbenzene	0.050	0.046	92.3	72 - 134	
Tetrachloroethene	0.050	0.041	82.4	67 - 135	
Toluene	0.050	0.046	91.5	72 - 122	
trans-1,2-Dichloroethene	0.050	0.047	93.4	67 - 129	
trans-1,3-Dichloropropene	0.050	0.053	106	66 - 137	
Trichloroethene	0.050	0.046	91.1	74 - 126	
Trichlorofluoromethane	0.050	0.048	95.8	54 - 156	
Vinyl chloride	0.050	0.044	87.6	55 - 153	
Xylenes, Total	0.150	0.137	91.1	75 - 128	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Matrix Spike/Matrix Spike Duplicate

L367568-07

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
1,1,1,2-Tetrachloroethane	0.050	0.000	0.054	109	0.053	105	45-152		3.1	21	
1,1,1-Trichloroethane	0.050	0.000	0.051	102	0.049	98.1	31-161		3.6	23	
1,1,2,2-Tetrachloroethane	0.050	0.000	0.054	108	0.049	98.0	49-149		9.3	22	
1,1,2-Trichloroethane	0.050	0.000	0.052	105	0.051	101	46-145		3.3	20	
1,1,2-Trichloro-1,2,2-	0.050	0.000	0.055	110	0.051	102	14-168		6.9	24	
1,1-Dichloroethane	0.050	0.000	0.049	97.6	0.046	92.9	30-159		5.0	21	
1,1-Dichloroethene	0.050	0.000	0.041	82.3	0.038	76.1	10-162		7.8	23	
1,1-Dichloropropene	0.050	0.000	0.049	97.2	0.046	92.0	14-162		5.5	23	
1,2,3-Trichlorobenzene	0.050	0.000	0.054	108	0.048	96.2	32-143		12	33	
1,2,3-Trichloropropane	0.050	0.000	0.053	107	0.048	95.7	48-148		11	23	
1,2,3-Trimethylbenzene	0.050	0.000	0.051	102	0.050	101	36-141		1.0	25	
1,2,4-Trichlorobenzene	0.050	0.000	0.053	105	0.047	94.6	27-142		11	30	
1,2,4-Trimethylbenzene	0.050	0.000	0.054	108	0.051	102	29-153		5.2	27	
1,2-Dibromo-3-Chloropropane	0.050	0.000	0.054	108	0.048	96.9	37-148		11	27	
1,2-Dibromoethane	0.050	0.000	0.046	92.7	0.044	87.7	41-149		5.5	21	
1,2-Dichlorobenzene	0.050	0.000	0.053	106	0.051	102	40-139		3.3	23	
1,2-Dichloroethane	0.050	0.000	0.050	101	0.048	95.3	29-167		5.6	21	
1,2-Dichloropropane	0.050	0.000	0.052	103	0.050	100	39-148		2.9	20	
1,3,5-Trimethylbenzene	0.050	0.000	0.054	107	0.051	103	33-149		4.4	26	
1,3-Dichlorobenzene	0.050	0.000	0.052	104	0.048	96.1	32-148		7.9	24	
1,3-Dichloropropane	0.050	0.000	0.052	104	0.050	99.1	44-142		4.4	20	
1,4-Dichlorobenzene	0.050	0.000	0.051	101	0.050	99.2	32-136		2.2	23	
2,2-Dichloropropane	0.050	0.000	0.053	107	0.052	105	14-158		1.8	23	
2-Butanone (MEK)	0.250	0.000	0.268	107	0.237	94.8	32-151		12	26	
2-Chloroethyl vinyl ether	0.250	0.000	0.083	33.1	0.022	8.7	0-175		117	75	J3
2-Chlorotoluene	0.050	0.000	0.051	103	0.049	98.1	35-147		4.8	24	
4-Chlorotoluene	0.050	0.000	0.052	105	0.049	98.9	33-147		5.6	25	
4-Methyl-2-pentanone	0.250	0.000	0.265	106	0.246	98.2	40-160		7.4	28	
Acetone	0.250	0.001	0.251	99.7	0.220	87.4	25-157		13	26	
Acrolein	0.250	0.000	0.418	167	0.389	156	0-179		7.1	39	
Acrylonitrile	0.250	0.000	0.291	117	0.264	105	37-162		10.0	24	
Benzene	0.050	0.000	0.048	95.6	0.046	91.7	16-158		4.2	21	
Bromobenzene	0.050	0.000	0.050	99.6	0.047	93.7	37-147		6.1	23	
Bromodichloromethane	0.050	0.000	0.056	112	0.055	110	45-147		1.7	20	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Matrix Spike/Matrix Spike Duplicate

L367568-07

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
Bromoform	0.050	0.000	0.049	98.5	0.046	91.6	38-152		7.3	20	
Bromomethane	0.050	0.000	0.054	108	0.051	103	0-191		5.5	35	
Carbon tetrachloride	0.050	0.000	0.052	104	0.048	96.4	22-168		7.4	24	
Chlorobenzene	0.050	0.000	0.051	103	0.051	102	33-148		0.9	22	
Chlorodibromomethane	0.050	0.000	0.049	98.6	0.047	93.0	48-151		5.8	21	
Chloroethane	0.050	0.000	0.054	107	0.049	98.6	4-176		8.4	27	
Chloroform	0.050	0.000	0.050	101	0.048	95.9	37-147		4.9	21	
Chloromethane	0.050	0.000	0.046	91.5	0.043	85.9	10-174		6.3	28	
cis-1,2-Dichloroethene	0.050	0.088	0.153	130	0.149	121	29-156		3.0	22	
cis-1,3-Dichloropropene	0.050	0.000	0.052	104	0.051	101	35-148		2.9	21	
Di-isopropyl ether	0.050	0.000	0.055	110	0.053	106	39-160		3.5	21	
Dibromomethane	0.050	0.000	0.052	104	0.049	98.1	36-152		5.6	20	
Dichlorodifluoromethane	0.050	0.000	0.048	96.1	0.044	88.1	0-200		8.7	26	
Ethylbenzene	0.050	0.000	0.052	103	0.051	102	29-150		1.4	24	
Hexachloro-1,3-butadiene	0.050	0.000	0.053	107	0.051	101	28-144		5.5	33	
Isopropylbenzene	0.050	0.000	0.055	109	0.053	105	35-147		3.7	25	
Methyl tert-butyl ether	0.050	0.000	0.058	117	0.054	108	24-167		8.0	22	
Methylene Chloride	0.050	0.000	0.046	91.0	0.042	84.7	23-151		7.2	21	
n-Butylbenzene	0.050	0.000	0.052	104	0.051	102	22-151		2.4	29	
n-Propylbenzene	0.050	0.000	0.050	100	0.048	96.8	26-150		3.7	25	
Naphthalene	0.050	0.000	0.055	109	0.049	97.1	24-160		12	37	
p-Isopropyltoluene	0.050	0.000	0.054	109	0.051	102	28-151		6.6	27	
sec-Butylbenzene	0.050	0.000	0.053	105	0.051	101	32-149		4.1	26	
Styrene	0.050	0.000	0.047	94.8	0.046	91.4	38-149		3.7	23	
tert-Butylbenzene	0.050	0.000	0.056	112	0.054	107	36-149		4.0	26	
Tetrachloroethene	0.050	0.000	0.046	92.3	0.046	92.6	13-157		0.2	24	
Toluene	0.050	0.000	0.047	94.1	0.046	91.8	22-152		2.5	22	
trans-1,2-Dichloroethene	0.050	0.010	0.057	94.6	0.055	91.2	11-160		3.1	23	
trans-1,3-Dichloropropene	0.050	0.002	0.048	92.7	0.047	90.4	33-153		2.4	22	
Trichloroethene	0.050	0.000	0.047	94.7	0.047	93.3	18-163		1.5	21	
Trichlorofluoromethane	0.050	0.000	0.052	103	0.049	97.5	10-177		5.9	24	
Vinyl chloride	0.050	0.000	0.050	100.0	0.048	95.2	0-179		4.9	26	
Xylenes, Total	0.150	0.000	0.158	106	0.156	104	27-151		1.3	23	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
1,1,1,2-Tetrachloroethane	0.050	0.055	111	0.056	112	75-134		0.9	20	
1,1,1-Trichloroethane	0.050	0.052	104	0.049	98.3	67-137		5.2	20	
1,1,2,2-Tetrachloroethane	0.050	0.051	103	0.053	106	72-128		2.9	20	
1,1,2-Trichloroethane	0.050	0.053	106	0.054	108	79-123		2.2	20	
1,1,2-Trichloro-1,2,2-	0.050	0.056	111	0.053	106	51-149		5.3	20	
1,1-Dichloroethane	0.050	0.050	99.0	0.047	95.0	67-133		4.2	20	
1,1-Dichloroethene	0.050	0.043	85.6	0.040	80.2	60-130		6.5	20	
1,1-Dichloropropene	0.050	0.050	101	0.048	96.7	68-132		4.2	20	
1,2,3-Trichlorobenzene	0.050	0.052	104	0.051	103	63-138		1.2	20	
1,2,3-Trichloropropane	0.050	0.051	101	0.052	104	68-130		2.6	20	
1,2,3-Trimethylbenzene	0.050	0.051	103	0.052	104	70-127		0.9	20	
1,2,4-Trichlorobenzene	0.050	0.051	103	0.051	101	65-137		1.4	20	
1,2,4-Trimethylbenzene	0.050	0.057	113	0.056	112	72-135		1.6	20	
1,2-Dibromo-3-Chloropropane	0.050	0.050	99.4	0.052	103	55-134		3.5	20	
1,2-Dibromoethane	0.050	0.047	93.3	0.047	93.6	75-126		0.3	20	
1,2-Dichlorobenzene	0.050	0.052	103	0.053	105	75-122		1.9	20	
1,2-Dichloroethane	0.050	0.052	104	0.050	100	63-137		3.6	20	
1,2-Dichloropropane	0.050	0.053	106	0.052	104	74-122		2.0	20	
1,3,5-Trimethylbenzene	0.050	0.056	112	0.055	110	73-134		1.2	20	
1,3-Dichlorobenzene	0.050	0.054	107	0.052	104	73-131		2.8	20	
1,3-Dichloropropane	0.050	0.052	104	0.052	105	77-119		0.9	20	
1,4-Dichlorobenzene	0.050	0.050	99.4	0.051	101	70-121		1.7	20	
2,2-Dichloropropane	0.050	0.055	109	0.052	104	46-151		5.4	20	
2-Butanone (MEK)	0.250	0.248	99.1	0.243	97.1	53-132		2.0	20	
2-Chloroethyl vinyl ether	0.250	0.245	97.9	0.250	100	0-171		2.3	27	
2-Chlorotoluene	0.050	0.053	106	0.053	106	74-128		0.3	20	
4-Chlorotoluene	0.050	0.054	107	0.053	107	74-130		0.6	20	
4-Methyl-2-pentanone	0.250	0.238	95.2	0.248	99.2	60-142		4.1	20	
Acetone	0.250	0.230	91.8	0.221	88.5	48-134		3.7	20	
Acrolein	0.250	0.457	183	0.439	176	6-182	J4	3.9	39	
Acrylonitrile	0.250	0.270	108	0.264	106	60-140		2.3	20	
Benzene	0.050	0.049	98.7	0.048	95.6	67-126		3.2	20	
Bromobenzene	0.050	0.051	102	0.051	102	76-123		0.4	20	
Bromodichloromethane	0.050	0.056	113	0.057	114	68-133		1.3	20	

Quality Control Summary for client sample(s) MW-14, MW-15, FIELD BLANK

35 of 41

EPAHO082001350



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-01, -02, -04

Sample Date: 9/29/2008

Extraction Date: 10/4/2008

Analysis Date: 10/4/2008 4:20:00 PM

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG387069

EPA ID: TN00003

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	% Qualifier RPD	Control Limits	Qualifier
Bromoform	0.050	0.048	96.1	0.049	98.3	60-139	2.3	20	
Bromomethane	0.050	0.061	123	0.057	114	45-175	7.6	20	
Carbon tetrachloride	0.050	0.054	108	0.051	102	64-141	5.7	20	
Chlorobenzene	0.050	0.054	108	0.054	108	77-125	0.1	20	
Chlorodibromomethane	0.050	0.049	97.9	0.049	98.5	73-138	0.7	20	
Chloroethane	0.050	0.058	115	0.055	110	49-155	5.0	20	
Chloroform	0.050	0.051	101	0.049	98.9	66-126	2.5	20	
Chloromethane	0.050	0.051	102	0.047	94.9	45-152	7.1	20	
cis-1,2-Dichloroethene	0.050	0.054	108	0.052	103	72-128	4.3	20	
cis-1,3-Dichloropropene	0.050	0.053	107	0.053	107	73-131	0.2	20	
Di-isopropyl ether	0.050	0.055	111	0.055	109	63-139	1.7	20	
Dibromomethane	0.050	0.052	104	0.052	103	73-125	0.8	20	
Dichlorodifluoromethane	0.050	0.046	92.8	0.043	86.5	39-189	7.0	24	
Ethylbenzene	0.050	0.054	108	0.054	109	76-129	0.3	20	
Hexachloro-1,3-butadiene	0.050	0.053	106	0.053	105	67-135	0.5	20	
Isopropylbenzene	0.050	0.056	113	0.056	111	73-132	1.1	20	
Methyl tert-butyl ether	0.050	0.057	114	0.055	110	51-142	3.1	20	
Methylene Chloride	0.050	0.048	96.5	0.047	93.1	64-125	3.5	20	
n-Butylbenzene	0.050	0.051	102	0.051	103	63-142	0.4	20	
n-Propylbenzene	0.050	0.052	104	0.052	104	71-132	0.0	20	
Naphthalene	0.050	0.051	102	0.051	103	56-145	1.0	20	
p-Isopropyltoluene	0.050	0.056	113	0.055	110	68-138	2.8	20	
sec-Butylbenzene	0.050	0.055	109	0.054	108	70-135	1.3	20	
Styrene	0.050	0.049	98.2	0.049	98.7	78-130	0.5	20	
tert-Butylbenzene	0.050	0.058	115	0.056	113	72-134	2.3	20	
Tetrachloroethene	0.050	0.051	102	0.050	101	67-135	0.8	20	
Toluene	0.050	0.049	98.0	0.049	98.0	72-122	0.1	20	
trans-1,2-Dichloroethene	0.050	0.048	96.1	0.046	92.2	67-129	4.1	20	
trans-1,3-Dichloropropene	0.050	0.048	95.1	0.049	97.1	66-137	2.1	20	
Trichloroethene	0.050	0.051	102	0.051	102	74-126	0.1	20	
Trichlorofluoromethane	0.050	0.056	111	0.053	107	54-156	4.3	20	
Vinyl chloride	0.050	0.056	111	0.051	103	55-153	8.4	20	
Xylenes, Total	0.150	0.166	111	0.166	111	75-128	0.2	20	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Matrix Spike/Matrix Spike Duplicate

L367568-03

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
1,1,1,2-Tetrachloroethane	0.050	0.000	0.053	106	0.029	57.4	45-152		60	21	J3
1,1,1-Trichloroethane	0.050	0.000	0.054	109	0.053	106	31-161		2.8	23	
1,1,2,2-Tetrachloroethane	0.050	0.000	0.052	105	0.032	64.7	49-149		47	22	J3
1,1,2-Trichloroethane	0.050	0.000	0.050	100.0	0.029	57.0	46-145		55	20	J3
1,1,2-Trichloro-1,2,2-	0.050	0.000	0.043	87.0	0.046	91.1	14-168		4.6	24	
1,1-Dichloroethane	0.050	0.000	0.056	113	0.053	105	30-159		6.8	21	
1,1-Dichloroethene	0.050	0.000	0.052	103	0.045	90.6	10-162		13	23	
1,1-Dichloropropene	0.050	0.000	0.053	106	0.048	95.2	14-162		11	23	
1,2,3-Trichlorobenzene	0.050	0.000	0.054	107	0.054	108	32-143		0.7	33	
1,2,3-Trichloropropane	0.050	0.000	0.054	107	0.032	64.5	48-148		50	23	J3
1,2,3-Trimethylbenzene	0.050	0.000	0.045	89.9	0.043	85.4	36-141		5.1	25	
1,2,4-Trichlorobenzene	0.050	0.000	0.054	108	0.053	106	27-142		2.0	30	
1,2,4-Trimethylbenzene	0.050	0.000	0.048	96.5	0.026	51.8	29-153		60	27	J3
1,2-Dibromo-3-Chloropropane	0.050	0.000	0.051	101	0.060	121	37-148		18	27	
1,2-Dibromoethane	0.050	0.000	0.050	101	0.029	57.1	41-149		55	21	J3
1,2-Dichlorobenzene	0.050	0.000	0.047	94.3	0.046	92.4	40-139		2.0	23	
1,2-Dichloroethane	0.050	0.000	0.054	109	0.053	106	29-167		2.6	21	
1,2-Dichloropropane	0.050	0.000	0.054	108	0.050	99.2	39-148		8.2	20	
1,3,5-Trimethylbenzene	0.050	0.000	0.049	98.5	0.031	61.8	33-149		46	26	J3
1,3-Dichlorobenzene	0.050	0.000	0.050	99.2	0.036	72.6	32-148		31	24	J3
1,3-Dichloropropane	0.050	0.000	0.047	93.1	0.027	53.3	44-142		54	20	J3
1,4-Dichlorobenzene	0.050	0.000	0.045	89.7	0.000	0.0	32-136	J6	200	23	J3
2,2-Dichloropropane	0.050	0.000	0.053	106	0.051	101	14-158		4.4	23	
2-Butanone (MEK)	0.250	0.000	0.277	111	0.342	137	32-151		21	26	
2-Chloroethyl vinyl ether	0.250	0.000	0.134	53.8	0.761	304	0-175	J5	140	75	J3
2-Chlorotoluene	0.050	0.000	0.049	98.7	0.033	65.0	35-147		41	24	J3
4-Chlorotoluene	0.050	0.000	0.049	98.8	0.027	53.5	33-147		60	25	J3
4-Methyl-2-pentanone	0.250	0.000	0.300	120	0.339	136	40-160		12	28	
Acetone	0.250	0.029	0.244	86.2	0.294	106	25-157		19	26	
Acrolein	0.250	0.000	0.081	32.3	0.295	118	0-179		114	39	J3
Acrylonitrile	0.250	0.000	0.286	114	0.349	140	37-162		20	24	
Benzene	0.050	0.000	0.054	108	0.050	101	16-158		6.8	21	
Bromobenzene	0.050	0.000	0.048	96.5	0.026	52.8	37-147		58	23	J3
Bromodichloromethane	0.050	0.000	0.058	116	0.056	113	45-147		2.7	20	



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Matrix Spike/Matrix Spike Duplicate

L367568-03

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier	% RPD	Control Limits	Qualifier
Bromoform	0.050	0.000	0.055	110	0.034	67.3	38-152		48	20	J3
Bromomethane	0.050	0.000	0.054	107	0.052	104	0-191		2.9	35	
Carbon tetrachloride	0.050	0.000	0.062	124	0.056	112	22-168		9.7	24	
Chlorobenzene	0.050	0.000	0.049	97.3	0.026	52.2	33-148		60	22	J3
Chlorodibromomethane	0.050	0.000	0.054	109	0.031	62.8	48-151		54	21	J3
Chloroethane	0.050	0.000	0.046	91.9	0.048	95.2	4-176		3.5	27	
Chloroform	0.050	0.000	0.056	111	0.055	109	37-147		1.7	21	
Chloromethane	0.050	0.000	0.048	96.9	0.044	87.8	10-174		9.9	28	
cis-1,2-Dichloroethene	0.050	0.000	0.057	115	0.054	109	29-156		5.3	22	
cis-1,3-Dichloropropene	0.050	0.000	0.056	113	0.054	108	35-148		3.8	21	
Di-isopropyl ether	0.050	0.000	0.055	110	0.057	113	39-160		2.6	21	
Dibromomethane	0.050	0.000	0.052	104	0.050	101	36-152		3.0	20	
Dichlorodifluoromethane	0.050	0.000	0.043	86.5	0.038	76.8	0-200		12	26	
Ethylbenzene	0.050	0.000	0.049	98.2	0.027	53.4	29-150		59	24	J3
Hexachloro-1,3-butadiene	0.050	0.000	0.047	93.5	0.045	89.2	28-144		4.7	33	
Isopropylbenzene	0.050	0.000	0.051	102	0.028	55.3	35-147		60	25	J3
Methyl tert-butyl ether	0.050	0.000	0.042	83.2	0.045	89.2	24-167		6.9	22	
Methylene Chloride	0.050	0.001	0.053	105	0.039	75.8	23-151		32	21	J3
n-Butylbenzene	0.050	0.000	0.049	97.1	0.046	92.2	22-151		5.2	29	
n-Propylbenzene	0.050	0.000	0.050	99.6	0.026	52.6	26-150		62	25	J3
Naphthalene	0.050	0.003	0.045	83.5	0.049	93.1	24-160		10	37	
p-Isopropyltoluene	0.050	0.000	0.052	104	0.029	57.7	28-151		57	27	J3
sec-Butylbenzene	0.050	0.000	0.051	101	0.027	54.5	32-149		60	26	J3
Styrene	0.050	0.000	0.054	109	0.030	59.3	38-149		59	23	J3
tert-Butylbenzene	0.050	0.000	0.054	108	0.032	64.8	36-149		50	26	J3
Tetrachloroethene	0.050	0.000	0.047	93.7	0.024	48.0	13-157		65	24	J3
Toluene	0.050	0.000	0.050	100	0.047	93.6	22-152		7.1	22	
trans-1,2-Dichloroethene	0.050	0.000	0.054	108	0.047	93.8	11-160		14	23	
trans-1,3-Dichloropropene	0.050	0.000	0.056	112	0.056	111	33-153		0.8	22	
Trichloroethene	0.050	0.000	0.050	99.0	0.045	89.5	18-163		10	21	
Trichlorofluoromethane	0.050	0.000	0.052	104	0.052	105	10-177		1.0	24	
Vinyl chloride	0.050	0.000	0.049	97.4	0.046	92.3	0-179		5.4	26	
Xylenes, Total	0.150	0.000	0.147	98.2	0.079	52.4	27-151		61	23	J3



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156

Analytic Batch: WG387247

EPA ID: TN00003

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control	Control Limits	Qualifier
1,1,1,2-Tetrachloroethane	0.050	0.052	104	0.051	101	75-134	2.7	20		
1,1,1-Trichloroethane	0.050	0.052	103	0.050	101	67-137	2.3	20		
1,1,2,2-Tetrachloroethane	0.050	0.054	109	0.052	103	72-128	5.1	20		
1,1,2-Trichloroethane	0.050	0.050	100	0.049	98.3	79-123	2.2	20		
1,1,2-Trichloro-1,2,2-	0.050	0.046	92.3	0.044	88.0	51-149	4.7	20		
1,1-Dichloroethane	0.050	0.052	104	0.052	104	67-133	0.5	20		
1,1-Dichloroethene	0.050	0.043	85.1	0.050	99.4	60-130	16	20		
1,1-Dichloropropene	0.050	0.048	95.3	0.047	94.0	68-132	1.4	20		
1,2,3-Trichlorobenzene	0.050	0.051	102	0.051	101	63-138	1.0	20		
1,2,3-Trichloropropane	0.050	0.053	106	0.051	102	68-130	4.0	20		
1,2,3-Trimethylbenzene	0.050	0.043	86.7	0.042	84.2	70-127	2.9	20		
1,2,4-Trichlorobenzene	0.050	0.052	103	0.052	103	65-137	0.1	20		
1,2,4-Trimethylbenzene	0.050	0.048	95.5	0.046	92.2	72-135	3.6	20		
1,2-Dibromo-3-Chloropropane	0.050	0.050	100	0.049	97.8	55-134	2.5	20		
1,2-Dibromoethane	0.050	0.050	101	0.049	98.0	75-126	2.7	20		
1,2-Dichlorobenzene	0.050	0.046	91.8	0.045	89.1	75-122	2.9	20		
1,2-Dichloroethane	0.050	0.052	103	0.052	105	63-137	1.4	20		
1,2-Dichloropropane	0.050	0.051	102	0.052	104	74-122	1.9	20		
1,3,5-Trimethylbenzene	0.050	0.048	96.7	0.046	92.5	73-134	4.4	20		
1,3-Dichlorobenzene	0.050	0.048	95.4	0.047	93.2	73-131	2.3	20		
1,3-Dichloropropane	0.050	0.048	95.0	0.046	91.9	77-119	3.3	20		
1,4-Dichlorobenzene	0.050	0.043	85.7	0.042	84.2	70-121	1.8	20		
2,2-Dichloropropane	0.050	0.050	100	0.049	97.2	46-151	3.3	20		
2-Butanone (MEK)	0.250	0.284	114	0.278	111	53-132	2.1	20		
2-Chloroethyl vinyl ether	0.250	0.323	129	0.293	117	0-171	9.8	27		
2-Chlorotoluene	0.050	0.048	95.5	0.046	91.8	74-128	4.0	20		
4-Chlorotoluene	0.050	0.048	95.5	0.047	94.2	74-130	1.4	20		
4-Methyl-2-pentanone	0.250	0.301	120	0.297	119	60-142	1.4	20		
Acetone	0.250	0.253	101	0.270	108	48-134	6.6	20		
Acrolein	0.250	0.266	106	0.259	104	6-182	2.7	39		
Acrylonitrile	0.250	0.297	119	0.299	120	60-140	0.6	20		
Benzene	0.050	0.050	100	0.049	98.7	67-126	1.6	20		
Bromobenzene	0.050	0.048	95.9	0.047	93.2	76-123	2.8	20		
Bromodichloromethane	0.050	0.056	111	0.055	109	68-133	1.6	20		



# Environmental Science Corporation

## Quality Control Summary

### Envirotest

Test: Volatile Organic Compounds by Method 8260B

L367699

Matrix: Water - mg/L

Project: Woodlake Square Off-Site Delin.

Project No: HOU 080109

Login No: L367699

Sample Number: L367699-03

Sample Date: 9/29/2008

Extraction Date: 10/6/2008

Analysis Date: 10/6/2008 4:29:00 PM

Instrument ID: VOCMS4

Analyst: 156


Analytic Batch: WG387247

EPA ID: TN00003

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	% LCS	% Rec	Control Limits	% RPD	Control Limits	Qualifier
Bromoform	0.050	0.056	112	0.055	110	60-139	1.6	20	
Bromomethane	0.050	0.048	95.3	0.048	95.4	45-175	0.1	20	
Carbon tetrachloride	0.050	0.055	111	0.055	109	64-141	1.4	20	
Chlorobenzene	0.050	0.048	96.6	0.046	92.1	77-125	4.8	20	
Chlorodibromomethane	0.050	0.054	107	0.052	104	73-138	3.4	20	
Chloroethane	0.050	0.044	88.1	0.041	82.8	49-155	6.2	20	
Chloroform	0.050	0.053	106	0.053	105	66-126	0.9	20	
Chloromethane	0.050	0.047	93.1	0.046	91.5	45-152	1.8	20	
cis-1,2-Dichloroethene	0.050	0.053	107	0.053	106	72-128	0.9	20	
cis-1,3-Dichloropropene	0.050	0.054	107	0.053	105	73-131	1.6	20	
Di-isopropyl ether	0.050	0.055	110	0.055	111	63-139	0.3	20	
Dibromomethane	0.050	0.049	98.9	0.048	96.6	73-125	2.4	20	
Dichlorodifluoromethane	0.050	0.041	81.8	0.040	80.1	39-189	2.1	24	
Ethylbenzene	0.050	0.048	95.5	0.046	91.5	76-129	4.2	20	
Hexachloro-1,3-butadiene	0.050	0.044	88.9	0.042	84.7	67-135	4.9	20	
Isopropylbenzene	0.050	0.050	99.3	0.047	94.9	73-132	4.5	20	
Methyl tert-butyl ether	0.050	0.046	92.5	0.042	83.4	51-142	10	20	
Methylene Chloride	0.050	0.051	102	0.050	101	64-125	0.8	20	
n-Butylbenzene	0.050	0.047	93.1	0.045	89.7	63-142	3.7	20	
n-Propylbenzene	0.050	0.048	96.7	0.046	92.4	71-132	4.6	20	
Naphthalene	0.050	0.046	92.4	0.045	89.7	56-145	3.0	20	
p-Isopropyltoluene	0.050	0.051	101	0.049	98.9	68-138	2.3	20	
sec-Butylbenzene	0.050	0.050	99.7	0.048	95.8	70-135	4.0	20	
Styrene	0.050	0.053	106	0.051	102	78-130	3.6	20	
tert-Butylbenzene	0.050	0.053	106	0.046	92.3	72-134	13	20	
Tetrachloroethene	0.050	0.043	87.0	0.041	82.4	67-135	5.4	20	
Toluene	0.050	0.047	94.6	0.046	91.5	72-122	3.4	20	
trans-1,2-Dichloroethene	0.050	0.047	94.7	0.047	93.4	67-129	1.5	20	
trans-1,3-Dichloropropene	0.050	0.054	109	0.053	106	66-137	2.5	20	
Trichloroethene	0.050	0.047	93.3	0.046	91.1	74-126	2.5	20	
Trichlorofluoromethane	0.050	0.049	98.3	0.048	95.8	54-156	2.5	20	
Vinyl chloride	0.050	0.046	91.7	0.044	87.6	55-153	4.7	20	
Xylenes, Total	0.150	0.141	94.1	0.137	91.1	75-128	3.3	20	



  
- Sierra Chem (Cameron Compression -  
Poncha City) -

## Joy Baker

**From:** Al Longoria  
**Sent:** Wednesday, April 08, 2009 4:39 PM  
**To:** Lee Pinson  
**Cc:** Joy Baker  
**Subject:** RE:

Lee,

Here is some preliminary pricing:

1) Non hazardous liquid, sludge and solids in drums, totes and bulk.

	Drum	Tote/Supersack	Bulk
Liquid	\$65	\$65	<del>\$0.65/</del> Gallon
Sludge	\$60	\$240	<del>\$0.85/</del> Gallon
Solid	\$60	\$95	<del>\$0.65/</del> Gallon

CL 2500

Tote

2) Spent acids drums - \$200 drum / ~~\$~~ Bulk

3) Hazardous Carbon - \$195 drum

✓ 4) Sulfuric acid for recycle - ~~\$50/ton~~ \$0.30/gal price # 3356

✓ 5) Sodium Hydroxide for recycle - ~~\$0.20/~~ Gallon \$0.40/gal price 3357

6) Empty drums - \$10 Each

7) Paint waste:

Liquid \$120 drum

Sludge \$155 drum

Solid \$245 drum

Non Processable solid \$0.95 / pound

8) Wax - \$60 drum

Used oils: Drm / Bulk

Prices are subject to change. This is all dependant on the actual material shipped. Please let me know if you have any questions.

Used Coolant: Drm / Bulk

Thank you,

Al Longoria Absorbent Drm / Tote

CES Environmental Services, Inc

Main: (713) 800-7911

**From:** Lee Pinson [mailto:lpinson@sierrachemical.net]

**Sent:** Monday, April 06, 2009 6:57 PM

**To:** Joy Baker

Nails  
Wash → Roll off

Profiled: Canoxic

Acid

Oily pads

Class 1 Sludge

NH WW

---

Need: wax

Heavy Carbon media

## Health, Safety &amp; Environmental

No One Gets Hurt, Nothing Gets Harmed



Monday, March 30, 2009

HSE Home | Wastes Home | New\* | My Shipments\* | All by Group | By Facility | Division Totals | Facility Totals  
 | Bus Unit Totals | Area Totals | Admin\* | Carrier Licenses | Waste Streams

Year 2008

Group Compression Systems

Facility Ponca City

Go

## 2008 Wastes Disposed for Ponca City

Waste Stream	Unit	Amount Recycled	Amount Disposed	Total Disposed
* HAZ. Carbon, Activated	gal	0	800	800 DM
CL2000 D002 ACID	gal	0	110	110 DF/TOTE
Computer Monitors	lbs	0	100	100 450 lb.
Corrosive Liquid, Acidic, Inorganic, NOS	gal	0	16980	✓ 16980
Corrosive Liquid, Basic, Organic, N.O.S.	gal	0	11825	✓ 11825
Dip Tank Wastewater NON-HAZ	gal	0	172950	✓ 172950 TANKER
Empty Steel Drums	lbs	3800	0	3800 1000 EA
Fluorescent Lights	lbs	50	0	50 100 FT.
Imprex NON-HAZ	gal	0	110	110 DM
? Mercury (D009)	lbs	20	0	20 CASE BY ONE
Oil and Absorbent NON-HAZ	lbs	0	1600	1600 DM
Sludge NON-HAZ	gal	0	7450	7450 DF
Spent Acids D002	gal	0	1040	1040 DF
Spent Cotton Filters NON-HAZ	lbs	0	8100	8100 DF
✓ Spent Solvents/Thinners (Hazardous) D001	gal	0	55	55 DF
✓ Used Absorbents NON-HAZ	lbs	0	6400	6400 DF
Used Machine Coolant NON-HAZ	gal	0	3185	3185 DM
Used Oils NON-HAZ	gal	770	2640	3410 DM
Wax NON-HAZ	lbs	0	26185	26185

JOE EUE MOMAN  
(L)

(580) 767-8101

(580) 761-0699 CELL

- JOY- PLEASE PRICE THE FOLLOWING; \*\*
- 1) NON-HAZ LIQS/SLUDGE & SOLIDS IN DMS/TOTE/PAK
  - 2) SPENT ACIDS IN DMS/TOTES
  - 3) HAZ. "CARBON" MEDIA IN DMS (D002)
  - 4) BULK "SULFURIC ACID" FOR RECYCLE
  - 5) BULK SODIUM HYDROXIDE FOR RECYCLE
  - 6) Empty DRUM METAL & PLASTIC
  - 7) PAINT WASTE (D001)
  - 8) WAX "N-H"
  - 9) TRANS FROM PONCA CITY, OK - BULK & VAN

(X INCLUDES OIL, COOLANTS, N-H WATERS, SLUDGES, SOLIDS, & LATEX PAINTS) \*\*

<http://hse.c-a-m.com/wastes/facilityshipmenttotals.asp?Year=2008&groupid=CS++++&Fa...> 3/30/2009

Cameron



# Material Safety Data Sheet

Page 1 of 8

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### CHEVRON Hydraulic Oil AW

PRODUCT NUMBER(S): CPS255673 CPS255674 CPS255675 CPS255676  
SYNONYM: CHEVRON Hydraulic Oil AW ISO 22  
CHEVRON Hydraulic Oil AW ISO 32  
CHEVRON Hydraulic Oil AW ISO 46  
CHEVRON Hydraulic Oil AW ISO 68

### COMPANY IDENTIFICATION

Chevron Products Company  
Global Lubricants  
555 Market St.  
Room 803  
San Francisco, CA 94105-2870

### EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or  
(510)231-0623 (International)  
TRANSPORTATION (24 hr): CHEMTREC  
(800)424-9300 or (703)527-3887  
Emergency Information Centers  
are located in U.S.A.  
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 414-MSDS or (800) 414-6737  
Environmental, Safety, & Health Info: (415) 894-0703  
Product Information: (800) 582-3835

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Hydraulic Oil AW

### CONTAINING

COMPONENTS	AMOUNT	LIMIT/QT	AGENCY/TYPE
LUBRICATING BASE OIL			
SEVERELY REFINED PETROLEUM DISTILLATE			
	> 98.00%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884.

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

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**CHEVRON Hydraulic Oil AW**

Page 2 of 8

CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525,  
CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

**ADDITIVES**

&lt; 2.00%

**COMPOSITION COMMENT:**

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

**3. HAZARDS IDENTIFICATION****POTENTIAL HEALTH EFFECTS****EYE:**

Not expected to cause prolonged or significant eye irritation.

**SKIN:**

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

**INGESTION:**

Not expected to be harmful if swallowed.

**INHALATION:**

Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

**4. FIRST AID MEASURES****EYE:**

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

**SKIN:**

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

**INGESTION:**

No specific first aid measures are required because this material is not

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

**CHEVRON Hydraulic Oil AW**

Page 3 of 8

expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

**INHALATION:**

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

**NOTE TO PHYSICIANS:**

In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

**5. FIRE FIGHTING MEASURES**

**SPECIAL NOTES:** Leaks/ruptures in high pressure systems using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

**FIRE CLASSIFICATION:**

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

**FLAMMABLE PROPERTIES:**

**FLASH POINT:** (COC) 302F (150C) Min.

**AUTOIGNITION:** NDA

**FLAMMABILITY LIMITS** (% by volume in air): Lower: NA Upper: NA

**EXTINGUISHING MEDIA:**

CO2, Dry Chemical, Foam, Water Fog

**NFPA RATINGS:** Health 0; Flammability 1; Reactivity 0.

**FIRE FIGHTING INSTRUCTIONS:**

This material will burn although it is not easily ignited.

**COMBUSTION PRODUCTS:**

Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

**6. ACCIDENTAL RELEASE MEASURES**

**CHEMTREC EMERGENCY NUMBER** (24 hr): (800)424-9300 or (703)527-3887

International Collect Calls Accepted

**ACCIDENTAL RELEASE MEASURES:**

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

X-DOS021 (01-88)

EPAHO082001364

CHEVRON Hydraulic Oil AW

Page 4 of 8

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**7. HANDLING AND STORAGE**

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DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

Drum is not designed to contain pressure. Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS**

Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT****EYE/FACE PROTECTION:**

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**SKIN PROTECTION:**

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Nitrile> <Silver Shield> <Viton>

**RESPIRATORY PROTECTION:**

No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying

Revision Number: 0

Revision Date: 01/27/99

MDS Number: 007457

**CHEVRON Hydraulic Oil AW**

Page 5 of 8

respirators: particulate.

**9. PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL DESCRIPTION:**

Pale yellow liquid.

pH: NDA

VAPOR PRESSURE: NA

VAPOR DENSITY

(AIR=1): NA

BOILING POINT: NDA

FREEZING POINT: NDA

MELTING POINT: NA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY: 0.86 - 0.88 @ 15.6/15.6C

VOLATILE ORGANIC

COMPOUNDS (VOC): &lt;2.2 (wt.%); 19 g/l (estimated)

EVAPORATION RATE: NA

VISCOSITY: 22 - 61.2 cSt @ 40C (Min.)

PERCENT VOLATILE

(VOL): NA

**10. STABILITY AND REACTIVITY****HAZARDOUS DECOMPOSITION PRODUCTS:**

No data available.

**CHEMICAL STABILITY:**

Stable.

**CONDITIONS TO AVOID:**

No data available.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**HAZARDOUS POLYMERIZATION:**

Polymerization will not occur.

**11. TOXICOLOGICAL INFORMATION****EYE EFFECTS:**

The eye irritation hazard is based on data for a similar material.

**SKIN EFFECTS:**

The skin irritation hazard is based on data for a similar material.

**ACUTE ORAL EFFECTS:**

The acute oral toxicity is based on data for a similar material.

**ACUTE INHALATION EFFECTS:**

The acute respiratory toxicity is based on data for a similar material.

**ADDITIONAL TOXICOLOGY INFORMATION:**

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

X-DDS021 (01-89)

EPAHO082001366

**CHEVRON Hydraulic Oil AW**

Page 6 of 8

severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

**12. ECOLOGICAL INFORMATION****ECOTOXICITY:**

This material is not expected to be harmful to aquatic organisms.

**ENVIRONMENTAL FATE:**

This material is not expected to be readily biodegradable.

**13. DISPOSAL CONSIDERATIONS**

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

**14. TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating Oil - Not Hazardous by U.S. DOT.  
ADR/RID Hazard class - Not applicable.

**15. REGULATORY INFORMATION**

SARA 311 CATEGORIES:	1. Immediate (Acute) Health Effects:	NO
	2. Delayed (Chronic) Health Effects:	NO
	3. Fire Hazard:	NO
	4. Sudden Release of Pressure Hazard:	NO
	5. Reactivity Hazard:	NO

**REGULATORY LISTS SEARCHED:**

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

**CHEVRON Hydraulic Oil AW**

Page 7 of 8

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06-IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07-IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08-IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

**SEVERELY REFINED PETROLEUM DISTILLATE**  
is found on lists: 14,15,17,

**EU RISK AND SAFETY LABEL PHRASES:**

May cause long-term adverse effects in the aquatic environment.

**NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:

**PETROLEUM OIL**

**WHMIS CLASSIFICATION:**

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

**16. OTHER INFORMATION**

**NFPA RATINGS:** Health 0; Flammability 1; Reactivity 0;  
**HMIS RATINGS:** Health 1; Flammability 1; Reactivity 0;  
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**REVISION STATEMENT:**

This is a new Material Safety Data Sheet.

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories	() - Change Has Been Proposed
NDA - No Data Available	NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 1627, Richmond, CA 94804

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

X-DOS021 (01-88)

EPAHO082001368

CHEVRON Hydraulic Oil AW

Page 8 of 8

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

\*\*\*\*\*

THIS IS THE LAST PAGE OF THIS MSDS

\*\*\*\*\*

Revision Number: 0

Revision Date: 01/27/99

MSDS Number: 007457

EPAHO082001369

**MATERIAL SAFETY DATA SHEET****1. CHEMICAL IDENTITY**

Chemical name: <b>SODIUM HYDROXIDE</b>	Chemical classification Alkaline inorganic compound
Synonyms : Caustic soda, Soda Lye, Lye	Trade Name
Formula : NaOH	C.A.S. No. 1310-73-2 : U.N. No. 1823 / 1824
Regulated identification	Shipping Name : Sodium Hydroxide, Solid/solution Hazchem Code 2 R Codes / Label : Corrosive. class. 8 Hazardous Waste ID No. 16
<b>HAZARDOUS INGREDIENTS</b>	: C.A.S. No. 1310-73-2
1. Sodium Hydroxide	

**2. PHYSICAL / CHEMICAL DATA**

Boiling PT/range : 1390 °C	Physical state solid : Appearance white flakes / pellets
Melting / Freezing pt. : 318.4 °C	Vapour Pressure : Odour Odourless
Vapour density Not pertinent (Air = 1)	@ 35°C / mm Hg at 730°C :
specific Gravity : 2.12 at 24°C/4°C (water = 1)	solubility in water at 30°C : Soluble Others : Soluble in alcohol, methanol and glycerol
	pH : 13-14 (Soln)

**3. FIRE / EXPLOSION HAZARD DATA**

Flammability : No		LEL Not pertinent % : Flash Point °C Not pertinent	
TDG Flammability : N.A		UEL Not pertinent % : Flash Point °C Not pertinent	
Auto ignition Temperature °C		Not pertinent	
Explosion sensitivity to impact		Stable	
Explosion sensitivity to impact static		Stable	
Electricity		Emits toxic fumes of Na <sub>2</sub> O	
Hazardous Combustion Products		Will not occur	
Hazardous Polymerization			
Combustible liquid	No	Explosive Material	No
Flammable material	No	Oxidiser	No
Pyrophoric Material	No	Organic Peroxide	No
		Corrosive Material : yes	

**4. REACTIVITY DATA**

Chemical stability	Stable
Incompatibility	Water, acids, flammable liquids, organic halides, metals,
With other material	Al Sn, Zn, nitro methane and nitro compounds
Reactivity	Vigorous reaction with organic halides, metals, nitro compounds
Hazardous Reaction Products	Not available

**5. HEALTH HAZARD DATA**

Routes of entry	Inhalation, Skin, Ingestion & Eyes
Effects of exposure/ symptoms	Inhalation: Causes small burns to upper respiratory tract and lungs, mild nose irritation Ingestion: Causes severe damage to mucous membrane. Severe scarring or perforation may occur. Eyes: Severe damage. Skin: Causes Severe burns.
LD <sub>50</sub> (Oral - rat) : Not listed mg/kg STEL : Not listed ppm Not listed mg/m <sup>3</sup>	

Permissible exposure limit (ceiling) ----- ppm 2mg/m <sup>3</sup> Odour Threshold : Odourless				
TLV (ACGIH) (ceiling) ----- ppm 2mg/m <sup>3</sup> :				
NFPA Hazard : Health Flammability Reactivity Special				
Signals :	3	0	1	--

#### 6. PREVENTIVE MEASURES

Personal : Avoid contact with solid or liquid
Protective Equipment : Provide side covered safety goggles, face shield, dust-type respirator, rubber shoes and rubber hand gloves
Handling & Storage Precautions: Keep in a cool, dry, well ventilated place

#### 7. EMERGENCY / FIRST AID MEASURES

FIRE : Fire extinguishing Media : Not combustible
Special Procedure : Keep the containers cool by spraying water if exposed to heat or flame.
Unusual Hazards : Toxic gases are produced
Exposure : First Aid Measures : If eyes are affected, flush with plenty of water for 15 minutes.
Skin: Remove contaminated clothing & shoes wash the affected area with plenty of water. If inhaled, remove the victims to trash on area. Support a respiration seek a respiration. Seek medical immediately Antidotes/dosage : Not available.
SPILLS Steps to be taken : Sweep and collect without making dust. Wash the surface with plenty of water and soap.
Waste Disposal Method : Seal all waste in vapour-tight plastic bags for eventual disposal.

#### 8. ADDITIONAL INFORMATION / REFERENCES

Vigorous reaction with 1,2,4,5 - Tetrachlorobenzene has caused many industrial explosions and forms extremely toxic 2,3,7,8, - Tetrachlorodibeneodioxin. Under proper conditions of temperature, pressure and state of division, it can react / ignite violently with acetic acid, acetaldehyde, acetic anhydride, acrolein, acrylonitrile, allyl alcohol, allyl chloride.
--

#### 9. MANUFACTURERS / SUPPLIERS DATA

Name: Al Kout Industrial Projects Company, Kuwait
Plant : Salt & Chlorine Plant, Shuaiba, Kuwait
Company's Post Box: Post Box No. 10277, Shuaiba-65453, Kuwait
Tel: 00-(965)-3263795 / 3261500
Fax No. 00-(965)- 3263572 / 3261404 / 3261818
Company's Emergency Phone No. 00-(965)-3263795 Extn:202, 9375187, 9878503, 9408588 , 3261029, 9133221 (Pager).

#### 10. DISCLAIMER

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The AIPCo. makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.
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# The Kindt-Collins Company LLC

12651 Elmwood Ave  
Cleveland, Ohio 44111

## Kinco Brown Sculpture Wax

DATE PREPARED: 3/14/01

LAST REVISION: 3/3/06

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Kindt-Collins Company LLC  
12651 Elmwood Ave  
Cleveland, OH 44111

INFORMATION PHONE: (216) 252-4122

EMERGENCY PHONE: (800) 424-9300  
(Chemtrec)

PRODUCT NAME: Kinco Brown Sculpture Wax

PRODUCT NUMBER:

UPC NUMBER:

SYNONYMS:

PREPARED BY Kathy Louney-Bilski

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Ingredient %	OSHA PEL	ACGIH TLV
WAX BLEND - Microcrystalline wax	63231607	100	2 ppm (mg/m <sup>3</sup> )	TWA 2 ppm (mg/m)

This Product is completely colophony free with no detectable trace elements.

### HAZARDOUS IDENTIFICATION

#### EMERGENCY OVERVIEW:

#### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Fumes from molten product may cause irritation. Contact with molten product may cause severe thermal burns.

**INHALATION:** Product dust may cause respiratory tract irritation. Molten wax may cause irritation to the respiratory tract

**INGESTION:** Low order of acute systematic toxicity

**SKIN CONTACT:** Contact with molten wax may cause severe thermal burns.

#### SIGNS AND SYMPTOMS OF EXPOSURE:

### 4. FIRST AID MEASURES

**EYE CONTACT:** Ambient wax - flush wax particles with tepid water. Hot wax - seek medical attention

**INHALATION:** When fume or mist occurs remove to fresh air. If person is not breathing provide oxygen or artificial respiration. Seek medical attention.

**INGESTION:** Small quantities - permit to pass through system. Large quantities - seek medical attention

**SKIN CONTACT:** Ambient wax - wash with soap and water. Molten wax - cool wax immediately - do not remove wax from skin. Seek medical attention.

**AGGRAVATED MEDICAL CONDITIONS:**

**SUPPLEMENTAL HEALTH INFORMATION:**

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASH POINT:** >175°C/347°F

**FLASH POINT METHOD USED:** COC, ASTM D-92

**AUTOIGNITION:** Not Determined

**LEL:** Not Determined **UEL:** Not Determined

**EXTINGUISHING MEDIA:**

Use water fog, alcohol-type foam, dry chemical, or CO2. Do not use direct stream of water.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

As with most solid or particulate organic material, extremely high dust concentration in air may result in a potential fire hazard. Good housekeeping practices will prevent any significant accumulations.

**COMBUSTION PRODUCTS:**

N/A

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

Sweep up material and place in appropriate disposal container. If molten wax-contain spill as much as possible and let molten wax cool. Once solid, place material in appropriate disposal container.

**7. HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**OTHER PRECAUTIONS:**

N/A

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**

Normally none required. For mist and fumes used approved NIOSH/MSHA organic respirator.

**VENTILATION:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination

**PROTECTIVE GLOVES:** Ambient wax- cotton gloves /Molten wax- Impervious heat protective gloves

**EYE PROTECTION:** Safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N/A

**WORK / HYGENIC PRACTICES:**

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the restroom facilities.

**ENGINEERING CONTROLS:** Good ventilation should be sufficient to control airborne levels. Do not let molten product stand unused in melt tanks and injection machines. Stir molten product at all times.

**EXPOSURE GUIDELINES:**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>SOLUBILITY IN WATER:</b>	Insoluble	<b>APPEARANCE AND ODOR:</b>	brown to black solid-little or no odor
<b>BOILING POINT:</b>	660-730° F	<b>FREEZING POINT:</b>	N/A
<b>VAPOR PRESSURE</b>	NIL	<b>PERCENT VOLATILE:</b>	N/A
<b>EVAPORATION:</b>	N/A	<b>PH:</b>	N/A
<b>POUNDS PER GALLON</b>	Not Determined	<b>MOLECULAR WEIGHT:</b>	N/A
<b>SPECIFIC GRAVITY:</b>	~.930	<b>VAPOR DENSITY:</b>	N/A
<b>MELTING POINT:</b>	161+/-6°F	<b>OTHER PROPERTIES:</b>	

**10. STABILITY AND REACTIVITY**

**STABLE:** Stable                      **INCOMPATIBILITY:** Strong oxidizing materials.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:** Carbon dioxide (Carbon monoxide with incomplete combustion)

**HAZARDOUS POLYMERIZATION:** Will Not Occur

**11. TOXICOLOGY INFORMATION**

**12. ECOLOGICAL INFORMATION**

**13. DISPOSAL CONSIDERATIONS**

Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**14. TRANSPORTATION INFORMATION**

<b>DOT CLASS:</b>	Non-Hazardous
<b>HAZARD CLASS:</b>	Non-Hazard
<b>UN NUMBER:</b>	Non-Hazard
<b>PACKING:</b>	Non-Hazard
<b>GUIDE NUMBER:</b>	N/A
<b>PROPER SHIPPING NAME:</b>	Non-Hazardous

## 15. REGULATORY INFORMATION

**EC Classification:** No hazardous ingredients as defined by OSHA 29 CFR 1910.1200

**SARA Title III** **Section 302 : Extremely Hazardous (If Section is blank - then it is N/A (not applicable))**

per 40 CFR 372.45(f) toxic chemicals if so listed here in the mixture do not exceed the specified upper bound concentration value listed as Wt%

Chemical Name	CAS number	Wt. %
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**Section 311-312: Hazardous Categorization (If Section is blank - then it is N/A (not applicable))**

Chemical Name	CAS number	Wt. %
---------------	------------	-------

**Section 313: Toxic Chemical (If Section is blank - then it is N/A (not applicable))**

Chemical Name	CAS number	Wt. %
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**WHIMIS (If Section is blank - then it is N/A (not applicable))**

Chemical name	CAS number	Wt. %
---------------	------------	-------

**Proposition 65 (If Section is blank - then it is N/A (not applicable))**

Chemical name	CAS number	Wt. %
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## 16. OTHER INFORMATION

**HMS INFORMATION:** HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 PROTECTIVE:

## DISCLAIMER

The information contained herein is based on the data available to The Kindt-Collins LLC and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. We assume no responsibilities for injury from the use of this product described herein.

We only warrant to you, but no other persons, that the product herein shall conform to our Quality Assurance specifications on the date of shipment to you. Any technical advice, information, or recommendations given to you is given gratis without any warranty, expressed or implied.



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 6/5/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** PA-3356

**Expiration Date** 6/3/2011

**Generator:** Cameron Compression Systems

**Address:** 600 South First Street  
Ponca City, OK 74604

### Waste Information

**Name of Waste:** Copper sulfate solution

**TCEQ Waste Code #** product

**Container Type:**

**Detailed Description of Process Generating Waste:**

used acidic plating "this product is NOT waste, it is being used for its intended purpose"

**Color:** blue

**Odor:** mild

**pH:** <1

**Physical State:**

**Incompatibilities:** strong bases/caustic

**Safety Related Data/Special Handling:**

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001376



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 6/5/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** PA-3357

**Expiration Date** 6/3/2011

**Generator:** Cameron Compression Systems

**Address:** 600 South First Street  
Ponca City, OK 74604

### Waste Information

**Name of Waste:** Sodium hydroxide solution

**TCEQ Waste Code #** Product

**Container Type:**

**Detailed Description of Process Generating Waste:**

used plating solution "this material is not a waste, it is product being used for what its intended purpose"

**Color:** varies

**Odor:** mild

**pH:** >14

**Physical State:**

**Incompatibilities:** strong acids

**Safety Related Data/Special Handling:**

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001377

# Environmental Testing Inc. 488-2400

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

## Analytical Report

Report Date: 02/03/2009

Order # 2009010344

Laboratory Certificate # 7211

Client: **Mr. Tom Sturgill**  
**Ashland**  
**5021 Woodhaven Circle**  
**Harrah, OK 73045**

Project: **Cameron Specialties**

## Analytical Results

Client Sample ID: **Pit Water**

ETI ID: 1

Sample Collected : **01/26/2009 @ 10:00**

Matrix: **Aqueous**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
TCLP Arsenic	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Barium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Cadmium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Chromium	0.99	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Lead	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Mercury	<0.002	mg/L	01/29/2009 11:41:00 AM	JS	245.1
TCLP Selenium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Silver	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
Corrosivity (as pH)	3.66	S.U.	02/02/2009 11:40:00 AM	LH	4500 H+ B
Cyanide	<0.50	mg/L	02/03/2009 03:10:00 PM	LH	4500-CN E
Flashpoint	>140	°F	02/02/2009 11:00:00 AM	LH	1010 A
Sulfide	<50.0	mg/L	02/03/2009 11:05:00 AM	LH	4500-S2 D

Client Sample ID: **Pit Water Sludge**

ETI ID: 2

Sample Collected : **01/26/2009 @ 10:00**

Matrix: **Solids**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
TCLP Arsenic	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Barium	0.67	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Cadmium	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Chromium	0.19	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Lead	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Mercury	<0.002	mg/L	01/29/2009 11:43:00 AM	JS	245.1
TCLP Selenium	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Silver	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
Corrosivity (as pH)	4.88	S.U.	02/03/2009 10:30:00 AM	LH	9045A
Cyanide	<50.0	mg/Kg	01/29/2009 01:20:00 PM	LH	9010B

# Analytical Results

Client Sample ID: **Pit Water Sludge**

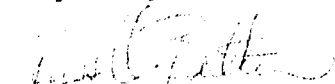
ETI ID: **2**

Sample Collected : **01/26/2009 @ 10:00**

Matrix: **Solids**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
Flashpoint	>140	°F	02/02/2009 11:00:00 AM	LH	1010A
Sulfide	<50.0	mg/Kg	02/03/2009 11:00:00 AM	LH	Hach 8131

Respectfully Submitted:



**Russell Britten**

**President**

Unless ETI receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Order #: 2009010344

Page 2 of 6

EPAHO082001379

## Quality Control Report

Report Date: 02/03/2009  
Order #: 2009010344

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

Laboratory Certificate # 7211

## Quality Control

### Aqueous

#### Blank

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	<0.01	mg/L	1
TCLP Barium	<0.01	mg/L	1
TCLP Cadmium	<0.01	mg/L	1
TCLP Chromium	<0.01	mg/L	1
TCLP Lead	<0.01	mg/L	1
TCLP Mercury	<0.0002	mg/L	1
TCLP Selenium	<0.01	mg/L	1
TCLP Silver	<0.01	mg/L	1
Cyanide	<0.15	mg/L	1
Sulfide	<0.05	mg/L	1

#### Duplicate

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	0.0	% dif.	1
TCLP Barium	3.3	% dif.	1
TCLP Cadmium	0.0	% dif.	1
TCLP Chromium	0.0	% dif.	1
TCLP Lead	0.0	% dif.	1
TCLP Mercury	0.0	% dif.	1
TCLP Selenium	0.0	% dif.	1
TCLP Silver	0.0	% dif.	1
Corrosivity (as pH)	0.0	% dif.	1

#### LCS

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	108	% rec.	1
TCLP Barium	100	% rec.	1
TCLP Cadmium	106	% rec.	1
TCLP Chromium	105	% rec.	1
TCLP Lead	104	% rec.	1
TCLP Mercury	86	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	100	% rec.	1
Cyanide	115	% rec.	1

# Quality Control

## Aqueous

### LCS

Parameter	QC Value	Units	ETI ID
Flashpoint	99	% rec.	1
Sulfide	104	% rec.	1

### Matrix Spike

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	106	% rec.	1
TCLP Barium	93	% rec.	1
TCLP Cadmium	99	% rec.	1
TCLP Chromium	95	% rec.	1
TCLP Lead	92	% rec.	1
TCLP Mercury	88	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	92	% rec.	1
Cyanide	118	% rec.	1
Sulfide	82	% rec.	1

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	107	% rec.	1
TCLP Barium	90	% rec.	1
TCLP Cadmium	100	% rec.	1
TCLP Chromium	95	% rec.	1
TCLP Lead	91	% rec.	1
TCLP Mercury	93	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	92	% rec.	1
Cyanide	113	% rec.	1
Sulfide	96	% rec.	1

## Solids

### Blank

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	<0.01	mg/L	2
TCLP Barium	<0.01	mg/L	2
TCLP Cadmium	<0.01	mg/L	2
TCLP Chromium	<0.01	mg/L	2
TCLP Lead	<0.01	mg/L	2
TCLP Mercury	<0.0002	mg/L	2
TCLP Selenium	<0.01	mg/L	2
TCLP Silver	<0.01	mg/L	2
Cyanide	<0.05	mg/L	2
Sulfide	<0.05	mg/L	2

# Quality Control

## Solids

### Duplicate

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	0.0	% dif.	2
TCLP Barium	3.3	% dif.	2
TCLP Cadmium	0.0	% dif.	2
TCLP Chromium	0.0	% dif.	2
TCLP Lead	0.0	% dif.	2
TCLP Mercury	0.0	% dif.	2
TCLP Selenium	0.0	% dif.	2
TCLP Silver	0.0	% dif.	2

### LCS

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	108	% rec.	2
TCLP Barium	100	% rec.	2
TCLP Cadmium	106	% rec.	2
TCLP Chromium	105	% rec.	2
TCLP Lead	104	% rec.	2
TCLP Mercury	86	% rec.	2
TCLP Selenium	104	% rec.	2
TCLP Silver	100	% rec.	2
Cyanide	117	% rec.	2
Flashpoint	99	% rec.	2
Sulfide	120	% rec.	2

### Matrix Spike

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	106	% rec.	2
TCLP Barium	93	% rec.	2
TCLP Cadmium	99	% rec.	2
TCLP Chromium	95	% rec.	2
TCLP Lead	92	% rec.	2
TCLP Mercury	88	% rec.	2
TCLP Selenium	104	% rec.	2
TCLP Silver	92	% rec.	2
Cyanide	106	% rec.	2
Sulfide	44M	% rec.	2

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	107	% rec.	2
TCLP Barium	90	% rec.	2
TCLP Cadmium	100	% rec.	2
TCLP Chromium	95	% rec.	2
TCLP Lead	91	% rec.	2
TCLP Mercury	93	% rec.	2

# Quality Control

## Solids

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Selenium	104	% rec.	2
TCLP Silver	92	% rec.	2
Cyanide	93	% rec.	2
Sulfide	43M	% rec.	2

E = Estimated Value (above linear range)

M = Out of Control Due to Matrix Effect

D = Surrogate or Matrix Spike Diluted Out

Q = Outside of QC Limits on Both Original and Rerun

C = Possible Laboratory Contamination

\* = Out of Control

J = Estimated Value (below linear range)

\*TA = Lab ID: 9412

\*OL = Lab ID: 8306

\*SM = Lab ID: 9940

Order #: 2009010344

Page 6 of 6

EPAHO082001383

010 07/11/06 FERROUS SULFATE ALL GRADES

PRODUCT NAME: FERROUS SULFATE ALL GRADES  
MSDS NUMBER: MZF1804  
DATE ISSUED: 9/12/2005  
SUPERSEDES: 8/23/2004  
ISSUED BY: 008614

=====

**FERROUS SULFATE**

=====

**1. PRODUCT IDENTIFICATION**

Distributed by:  
Univar USA Inc.  
17425 NE Union Hill Road  
Redmond, WA 98052  
425-889-5000

SYNONYMS: FERROUS SULPHATE; IRON SULFATE; SULFURIC ACID, IRON (2+)  
SALT (1:1),  
CAS NO: 7720-78-7 (Anhydrous)  
7782-63-0 (Heptahydrate)  
17375-41-6 (Monohydrate)  
MOLECULAR WEIGHT: NOT APPLICABLE TO MIXTURES.  
CHEMICAL FORMULA:  $\text{FeSO}_4 \cdot \text{XH}_2\text{O}$

=====

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NO	PERCENT	HAZARDOUS
FERROUS SULFATE ANHYDROUS	7720-78-7	100%	YES
FERROUS SULFATE HEPTAHYDRATE	7782-63-0	100%	YES
FERROUS SULFATE MONOHYDRATE	17375-41-6	100%	YES

=====

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

-----

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AFFECTS THE LIVER.

**POTENTIAL HEALTH EFFECTS**

-----

**INHALATION:**

CAUSES IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING, SHORTNESS OF BREATH.

**INGESTION:**

LOW TOXICITY IN SMALL QUANTITIES BUT LARGER DOSAGES MAY CAUSE NAUSEA, VOMITING, DIARRHEA, AND BLACK STOOL. PINK URINE DISCOLORATION IS A STRONG INDICATOR OF IRON POISONING. LIVER DAMAGE, COMA, AND DEATH FROM IRON POISONING HAS BEEN RECORDED. SMALLER DOSES ARE MUCH MORE TOXIC TO CHILDREN.

**SKIN CONTACT:**

CAUSES IRRITATION TO SKIN. SYMPTOMS INCLUDE REDNESS, ITCHING, AND PAIN.

EPAHQ082001384

EYE CONTACT:  
CAUSES IRRITATION, REDNESS, AND PAIN.

CHRONIC EXPOSURE:  
SEVERE OR CHRONIC FERROUS SULFATE POISONINGS MAY DAMAGE BLOOD VESSELS.  
LARGE CHRONIC DOSES CAUSE RICKETS IN INFANTS. CHRONIC EXPOSURE MAY CAUSE  
LIVER EFFECTS. PROLONGED EXPOSURE OF THE EYES MAY CAUSE DISCOLORATION.

AGGRAVATION OF PRE-EXISTING CONDITIONS:  
PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS, OR IMPAIRED  
LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE  
EFFECTS OF THE SUBSTANCE.

=====

#### 4. FIRST AID MEASURES

INHALATION:  
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF  
BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION:  
INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE  
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

SKIN CONTACT:  
IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15  
MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION.  
WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE.

EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES,  
LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION  
IMMEDIATELY.

=====

#### 5. FIRE FIGHTING MEASURES

FIRE:  
NOT CONSIDERED TO BE A FIRE HAZARD.

EXPLOSION:  
NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

FIRE EXTINGUISHING MEDIA:  
USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE.

SPECIAL INFORMATION:  
USE PROTECTIVE CLOTHING AND BREATHING EQUIPMENT APPROPRIATE FOR THE  
SURROUNDING FIRE.

=====

#### 6. ACCIDENTAL RELEASE MEASURES

VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE  
EQUIPMENT AS SPECIFIED IN SECTION 8. SPILLS: PICK UP AND PLACE IN A  
SUITABLE CONTAINER FOR RECLAMATION OR DISPOSAL, USING A METHOD THAT DOES  
NOT GENERATE DUST. US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS AND  
RELEASES TO SOIL, WATER AND AIR IN EXCESS OF REPORTABLE QUANTITIES. THE  
TOLL FREE NUMBER FOR THE US COAST GUARD NATIONAL RESPONSE CENTER IS (800)  
424-8802.

## 7. HANDLING AND STORAGE

KEEP IN A WELL CLOSED CONTAINER STORED UNDER COLD TO WARM CONDITIONS, 2 TO 40 C, (36 TO 104F). PROTECT AGAINST PHYSICAL DAMAGE. ISOLATE FROM INCOMPATIBLE SUBSTANCES. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN OPENED SINCE THEY RETAIN PRODUCT RESIDUES (DUST, SOLIDS); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

=====

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### AIRBORNE EXPOSURE LIMITS:

-ACGIH THRESHOLD LIMIT VALUE (TLV):

1 MG/M3 (TWA) SOLUBLE IRON SALT AS FE

### VENTILATION SYSTEM:

A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. PLEASE REFER TO THE ACGIH DOCUMENT, "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES", MOST RECENT EDITION, FOR DETAILS.

### PERSONAL RESPIRATORS (NIOSH APPROVED):

IF THE EXPOSURE LIMIT IS EXCEEDED, A HALF-FACE DUST/MIST RESPIRATOR MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. A FULL-FACE PIECE DUST/MIST RESPIRATOR MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT, OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY, OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACEPIECE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

### SKIN PROTECTION:

WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

### EYE PROTECTION:

USE CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE DUSTING OR SPLASHING OF SOLUTIONS IS POSSIBLE. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

=====

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE:

WHITE TO SLIGHTLY YELLOW TINGED POWDER.

### BOILING POINT:

NOT APPLICABLE.

### ODOR:

ODORLESS.

### MELTING POINT:

500C (932F)

### SOLUBILITY:

SOLUBLE IN WATER.

### VAPOR DENSITY (AIR=1):

NO INFORMATION FOUND.

### DENSITY:

NO INFORMATION FOUND.

### VAPOR PRESSURE (MM HG):

NO INFORMATION FOUND.

### PH:

NO INFORMATION FOUND.

### EVAPORATION RATE (BUAC=1):

NO INFORMATION FOUND.

=====

## 10. STABILITY AND REACTIVITY

### STABILITY:

STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

### HAZARDOUS DECOMPOSITION PRODUCTS:

BURNING MAY PRODUCE SULFUR OXIDES.

### HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

### INCOMPATIBILITIES:

ALKALIS, SOLUBLE CARBONATES, AND OXIDIZING MATERIALS. REACTS IN MOIST AIR TO FORM FERRIC SULFATE.

### CONDITIONS TO AVOID:

MOISTURE.

=====

## 11. TOXICOLOGICAL INFORMATION

FERROUS SULFATE HEPTAHYDRATE: ORAL MOUSE LD50: 1520 MG/KG, INVESTIGATED AS A MUTAGEN. FERROUS SULFATE ANHYDROUS: ORAL RAT LD50: 319 MG/KG; INVESTIGATED AS A MUTAGEN, TUMORIGEN, REPRODUCTIVE EFFECTOR.

-----/CANCER LISTS/-----  
-- ITP CARCINOGEN---  
INGREDIENT                      KNOWN              ANTICIPATED              IARC CATEGORY  
-----  
FERROUS SULFATE                      NO                      NO                      NONE

=====

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

NO INFORMATION FOUND.

### ENVIRONMENTAL TOXICITY:

NO INFORMATION FOUND.

=====

## 13. DISPOSAL CONSIDERATIONS

WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS.

DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.

=====

## 14. TRANSPORT INFORMATION

NON BULK

NOT REGULATED.

BULK  
SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.  
CLASS: 9  
UN NUMBER: UN3077  
PACKING GROUP: III  
R 1000 LBS

15. REGULATORY INFORMATION

-----/CHEMICAL INVENTORY STATUS - PART 1/-----  
INGREDIENT TSCA EC JAPAN AUSTRALIA  
-----  
FERROUS SULFATE (7720-78-7) YES YES YES YES

-----/CHEMICAL INVENTORY STATUS - PART 2/-----  
INGREDIENT KOREA --CANADA-- DSL NDSL PHIL.  
-----  
FERROUS SULFATE (7720-78-7) YES YES NO YES

-----/FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1/-----  
INGREDIENT -SARA 302- -SARA 313-  
RQ TPQ LIST CHEMICAL CATG  
-----  
FERROUS SULFATE (7720-78-7) NO NO NO NO

-----/FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2/-----  
INGREDIENT CERCLA -RCRA- -TSCA-  
261.33 8(D)  
-----  
FERROUS SULFATE (7720-78-7) 1000 NO NO

CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA: NO  
SARA 311/312: ACUTE: YES CHRONIC: YES FIRE: NO PRESSURE: NO  
REACTIVITY: NO (MIXTURE / SOLID)

AUSTRALIAN HAZCHEM CODE: NONE ALLOCATED.  
POISON SCHEDULE: NONE ALLOCATED.

WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE HAZARD CRITERIA OF  
THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS  
ALL OF THE INFORMATION REQUIRED BY THE CPR.

16. OTHER INFORMATION

NFPA RATINGS:  
HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

----- FOR ADDITIONAL INFORMATION -----  
CONTACT: MSDS COORDINATOR UNIVAR USA INC.  
DURING BUSINESS HOURS, PACIFIC TIME (425) 889-3400  
----- NOTICE -----

\* \*\*\*\*\* UNIVAR USA INC ("UNIVAR") EXPRESSLY DISCLAIMS

ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN,

EPAHO082001388

AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. \*\*

-----  
DO NOT USE INGREDIENT INFORMATION AND/OR INGREDIENT PERCENTAGES IN THIS MSDS AS A PRODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A PRODUCT SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM YOUR LOCAL UNIVAR SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, UNIVAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND UNIVARS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON , INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

\* \* \*    E N D   O F   M S D S    \* \* \*

When engineering and/or administrative controls are insufficient to maintain workplace concentrations within the 0.5 f/cc REG, the use of appropriate respiratory protection, pursuant to the requirements of OSHA Standards 29 CFR 1910.134 and 29 CFR 1926.103, is recommended. The following information is provided as an example of appropriate respiratory protection for aluminosilicate fibers. The evaluation of workplace hazards and the identification of appropriate respiratory protection is best performed, on a case by case basis, by a qualified Industrial Hygienist.

<b>MANUFACTURER'S RESPIRATORY PROTECTION RECOMMENDATIONS WHEN HANDLING RCF PRODUCTS</b>	
<b>Respirable Airborne Fiber Concentration</b> (levels are 8-hr. time-weighted averages)	<b>Respirator Recommendation<sup>†</sup></b>
Not yet determined but expected to be below 5.0 f/cc based on operation	Half-face, air purifying respirator equipped with a NIOSH certified P100 particulate filter cartridge
"Reliably" less than 0.5 f/cc	Optional
0.5 f/cc to 5.0 f/cc	Half-face, air purifying respirator equipped with a NIOSH certified P100 particulate filter cartridge
5.0 f/cc to 25 f/cc	Full-facepiece, air purifying respirator equipped with a NIOSH certified P100 particulate filter cartridge or PAPR
Greater than 25 f/cc	PAPR with tight-fitting full facepiece or a supplied air respirator in continuous flow mode
When individual workers request respiratory protection as a matter of personal comfort or choice where exposures are "reliably" below 0.5 f/cc	A NIOSH certified respirator, such as a disposable particulate respirator, or respirators with filter cartridges rated N95 or better

<sup>†</sup> The P100 recommendation is a conservative default choice; in some case, solid arguments can be made that other respirator types (e.g., N95, R99, etc.) may be suitable for some tasks or work environments. The P100 recommendation is not designed to limit informed choices, provided that respiratory protection decisions comply with 29 CFR 1910.134.

**Other Information:**

- Concentrations based upon an eight-hour time weighted average (TWA) as determined by air samples collected and analyzed pursuant to NIOSH method 7400 (B) for airborne fibers.
- The manufacturer recommends the use of a full-facepiece air purifying respirator equipped with an appropriate particulate filter cartridge during furnace tear-out events and the removal of used RCF to control exposures to airborne fiber and the potential presence of crystalline silica. If exposure levels are known, the respiratory protection chart provided above may be applied.
- Potential exposure to other airborne contaminants should be evaluated by a qualified Industrial Hygienist for the selection of appropriate respiratory protection and air monitoring.

**Skin Protection:**

Wear gloves, head coverings and full body clothing as necessary to prevent skin irritation. Washable or disposable clothing may be used. If possible, do not take unwashed clothing home. If soiled work clothing must be taken home, employers should ensure employees are thoroughly trained on the best practices to minimize or avoid non-work dust exposure (e.g., vacuum clothes before leaving the work area, wash work clothing separately, rinse washer before washing other household clothes, etc.).

#### Eye Protection:

Wear safety glasses with side shields or other forms of eye protection in compliance with appropriate OSHA standards to prevent eye irritation. The use of contact lenses is not recommended, unless used in conjunction with appropriate eye protection. Do not touch eyes with soiled body parts or materials. If possible, have eye-washing facilities readily available where eye irritation can occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR AND APPEARANCE:	White, odorless, fibrous material
CHEMICAL FAMILY:	Vitreous Aluminosilicate Fibers
BOILING POINT:	Not Applicable
WATER SOLUBILITY (%):	Not Soluble in Water
MELTING POINT:	1760° C (3200° F)
SPECIFIC GRAVITY:	2.50 - 2.75
VAPOR PRESSURE:	Not Applicable
pH:	Not Applicable
VAPOR DENSITY (Air = 1):	Not Applicable
% VOLATILE:	Not Applicable
MOLECULAR FORMULA:	Not Applicable

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under conditions of normal use.
INCOMPATIBILITY:	Soluble in hydrofluoric acid, phosphoric acid, and concentrated alkali.
CONDITIONS TO AVOID:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.
HAZARDOUS POLYMERIZATION:	Not Applicable.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH DATA SUMMARY

Epidemiological studies of RCF production workers have indicated no increased incidence of respiratory disease nor other significant health effects. In animal studies, long-term, high-dose inhalation exposure resulted in the development of respiratory disease in rats and hamsters.

### EPIDEMIOLOGY

The University of Cincinnati is conducting an ongoing epidemiologic investigation. The evidence obtained from employees in U. S. RCF manufacturing facilities is as follows:

- 1) There is no evidence of any fibrotic lung disease (interstitial fibrosis) from evaluations of chest X-rays.

2) There is no evidence of an elevated incidence of lung disease among RCF manufacturing employees.

3) In early studies, an apparent statistical "trend" was observed, in the exposed population, between RCF exposure duration and some measures of lung function. The observations were clinically insignificant. If these observations were made on an individual employee, the results would be interpreted as being within the normal (predicted) respiratory range. A more recent longitudinal study of employees with 5 or more pulmonary function tests found that there was no effect on lung function associated with RCF production experience. Initial data (circa 1987) seemed to indicate an interactive effect between smoking and RCF exposure; more recent data, however, found no interactive effect. Nevertheless, to promote good health, RCF employees are still actively encouraged not to smoke.

4) Pleural plaques (thickening along the chest wall) have been observed in a small number of RCF employees. Some studies appear to show a relationship between the occurrence of pleural plaques on chest radiographs and the following variables: (a) years since RCF production hire date; (b) duration of RCF production employment; and (c) cumulative RCF exposure. The best evidence to date indicates that pleural plaques are a marker of exposure only. Pleural plaques are not associated with pulmonary impairment. The pathogenesis of pleural plaques remains incompletely understood; however, the mechanism appears to be an inflammatory response caused by inhaled fibers.

#### TOXICOLOGY

A number of toxicological studies designed to identify any potential health effects from RCF exposure have been completed. In one study, conducted by the Research and Consulting Company, (Geneva, Switzerland), rats and hamsters were exposed to 30 mg/m<sup>3</sup> (about 200 fibers/cc) of specially-prepared RCF for 6 hours/day, 5 days/week, for up to 24 months. In rats, a statistically significant increase in lung tumors was observed; two mesotheliomas (cancer of the pleural lining between the chest wall and lung) were also identified. Hamsters did not develop lung tumors; however, interstitial fibrosis and mesothelioma was found. Some, in the scientific community, have concluded that the "maximum tolerated dose" was exceeded and that significant particle contamination was a confounding issue; therefore, these study findings may not represent an accurate assessment of the potential for RCF to produce adverse health effects.

In a related multi-dose study with a similar protocol, other rats were exposed to doses of 16 mg/m<sup>3</sup>, 9 mg/m<sup>3</sup>, 3 mg/m<sup>3</sup> which corresponds to about 115, 75, and 25 fibers per cubic centimeter respectively. This study found no statistically significant increase in lung cancer. Some cases of pleural and parenchymal fibrosis were seen in the 16 mg/m<sup>3</sup> dose group. Some cases of mild fibrosis and one mesothelioma were observed in the 9 mg/m<sup>3</sup> group. No acute respiratory effects were seen in the rats in the 3 mg/m<sup>3</sup> exposure group, which suggests that there may be a dose/response threshold, below which irreversible respiratory impacts do not occur.

Other toxicological studies have been conducted which utilized non-physiological exposure methods such as intrapleural, intraperitoneal and intratracheal implantation or injection. Some of these studies have found that RCF is a potential carcinogen. Some experts, however, suggest that these tests have limited relevance because they bypass many of the biological mechanisms that prevent fiber deposition or facilitate fiber clearance.

To obtain more epidemiology or toxicology information, please call the toll free telephone number for the Unifrax Corporation Product Stewardship Program found in Section 16 - Other Information.

## **12. ECOLOGICAL INFORMATION**

No ecological concerns have been identified.

## **13. DISPOSAL CONSIDERATIONS**

**WASTE MANAGEMENT**

To prevent waste materials from becoming airborne during waste storage, transportation and disposal, a covered container or plastic bagging is recommended.

**DISPOSAL**

RCF, as manufactured, is not classified as a hazardous waste according to Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

This product is manufactured with zirconium compounds which may contain trace quantities (<500ppm) of naturally occurring radioactive material (NORM) consisting of uranium, thorium, and/or radium. The quantity of radioactive materials in the zirconium compounds is below the regulatory level of 0.05% established by the Nuclear Regulatory Commission (NRC). Check your local, regional and state or provincial regulations for specific applicable handling and disposal requirements.

**14. TRANSPORT INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION (DOT)**

Hazard Class:	Not Regulated	United Nations (UN) Number:	Not Applicable
Labels:	Not Applicable	North America (NA) Number:	Not Applicable
Placards:	Not Applicable	Bill of Lading:	Product Name

**INTERNATIONAL**

Canadian TDG Hazard Class & PIN: Not regulated  
Not classified as dangerous goods under ADR (road), RID (train) or IMDG (ship).

**15. REGULATORY INFORMATION****UNITED STATES REGULATIONS**

**EPA:** Superfund Amendments and Reauthorization Act (SARA) Title III - This product does not contain any substances reportable under Sections 302, 304, 313, (40 CFR 372). Sections 311 and 312 (40 CFR 370) apply (delayed hazard).  
Toxic Substances Control Act (TSCA) - All substances in this product are listed, as required, on the TSCA inventory. RCF has been assigned a CAS number; however, it is a simple mixture and therefore not required to be listed on the TSCA inventory. The components of RCF are listed on the inventory.  
Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Clean Air Act (CAA) - RCF contains fibers with an average diameter greater than one micron and thus is not considered a hazardous air pollutant.

**OSHA:** Comply with Hazard Communication Standards 29 CFR 1910.1200 and 29 CFR 1926.59 and the Respiratory Protection Standards 29 CFR 1910.134 and 29 CFR 1926.103.

**California:** Ceramic fibers (airborne particles of respirable size) is listed in Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986 as a chemical known to the State of California to cause cancer.

**Other States:** RCF products are not known to be regulated by states other than California; however, state

and local OSHA and EPA regulations may apply to these products. If in doubt, contact your local regulatory agency.

### **INTERNATIONAL REGULATIONS**

**Canada:** Canadian Workplace Hazardous Materials Information System (WHMIS) – RCF is classified as Class D2A – Materials Causing Other Toxic Effects  
Canadian Environmental Protection Act (CEPA) - All substances in this product are listed, as required, on the Domestic Substance List (DSL)

**European Union:** European Directive 97/69/EC classified RCF as a Category 2 carcinogen; that is it "should be regarded as if it is carcinogenic to man."

## **16. OTHER INFORMATION**

### **RCF DEVITRIFICATION**

As produced, all RCF fibers are vitreous (glassy) materials which do not contain crystalline silica. Continued exposure to elevated temperatures may cause these fibers to devitrify (become crystalline). The first crystalline formation (mullite) begins to occur at approximately 985° C (1805° F). Crystalline silica (cristobalite) formation may begin at temperatures of approximately 1200° C (2192° F). The occurrence and extent of crystalline phase formation is dependent on the duration and temperature of exposure, fiber chemistry and/or the presence of fluiding agents. The presence of crystalline phases can be confirmed only through laboratory analysis of the "hot face" fiber.

IARC's evaluation of crystalline silica states "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)" and additionally notes "carcinogenicity in humans was not detected in all industrial circumstances studied" (IARC Monograph Vol. 68, 1997). NTP lists all polymorphs of crystalline silica amongst substances which may "reasonably be anticipated to be carcinogens".

IARC and NTP did not evaluate after-service RCF, which may contain various crystalline phases. However, an analysis of after-service RCF samples obtained pursuant to an exposure monitoring agreement with the USEPA, found that in the furnace conditions sampled, most did not contain detectable levels of crystalline silica. Other relevant RCF studies found that (1) simulated after-service RCF showed little, or no, activity where exposure was by inhalation or by intraperitoneal injection; and (2) after-service RCF was not cytotoxic to macrophage-like cells at concentrations up to 320 g/cm<sup>2</sup> - by comparison, pure quartz or cristobalite were significantly active at much lower levels (circa 20 g/cm<sup>2</sup>).

### **RCF AFTER-SERVICE REMOVAL**

Respiratory protection should be provided in compliance with OSHA standards. During removal operations, a full face respirator is recommended to reduce inhalation exposure along with eye and respiratory tract irritation. A specific evaluation of workplace hazards and the identification of appropriate respiratory protection is best performed, on a case by case basis, by a qualified industrial hygiene professional.

### **PRODUCT STEWARDSHIP PROGRAM**

The Unifrax Corporation has established a program to provide customers with up-to-date information regarding the proper use and handling of refractory ceramic fiber. In addition, Unifrax Corporation has also established a program to monitor airborne fiber concentrations at customer facilities. If you would like more information about this program, please call the Unifrax Corporation Product Stewardship Information Hotline at 1-800-322-2283.

On February 11, 2002, the Refractory Ceramic Fibers Coalition (RCFC) and the U.S. Occupational Safety and Health Administration (OSHA) introduced a voluntary worker protection program entitled PSP 2002, a comprehensive, multi-faceted risk management program designed to control and reduce workplace exposures to refractory ceramic fiber (RCF). Unifrax Corporation, as a member of RCFC, is participating in this highly acclaimed product stewardship program. For more information regarding PSP 2002, please call the Unifrax Corporation's Product Stewardship Information Hotline at 1-800-322-2293 or refer to the RCFC web site: <http://www.rcfc.net>.

**DEFINITIONS**

<b>ACGIH:</b>	American Conference of Governmental Industrial Hygienists
<b>ADR:</b>	Carriage of Dangerous Goods by Road (International Regulation)
<b>AZS:</b>	Alumino-zirconia-silicate
<b>CAA:</b>	Clean Air Act
<b>CAS:</b>	Chemical Abstracts Service
<b>CERCLA:</b>	Comprehensive Environmental Response, Compensation and Liability Act
<b>DSL:</b>	Domestic Substances List
<b>EPA:</b>	Environmental Protection Agency
<b>EU:</b>	European Union
<b>f/cc:</b>	Fibers per cubic centimeter
<b>HEPA:</b>	High Efficiency Particulate Air
<b>HMIS:</b>	Hazardous Materials Identification System
<b>IARC:</b>	International Agency for Research on Cancer
<b>IATA:</b>	International Air Transport Association
<b>IMDG:</b>	International Maritime Dangerous Goods Code
<b>mg/m<sup>3</sup>:</b>	Milligrams per cubic meter of air
<b>mmpcf:</b>	Million particles per cubic meter
<b>NFPA:</b>	National Fire Protection Association
<b>NIOSH:</b>	National Institute for Occupational Safety and Health
<b>OSHA:</b>	Occupational Safety and Health Administration
<b>29 CFR 1910.134 &amp; 1926.103:</b>	OSHA Respiratory Protection Standards
<b>29 CFR 1910.1200 &amp; 1926.59:</b>	OSHA Hazard Communication Standards
<b>PEL:</b>	Permissible Exposure Limit (OSHA)
<b>PIN:</b>	Product Identification Number
<b>PNOC:</b>	Particulates Not Otherwise Classified
<b>PNOR:</b>	Particulates Not Otherwise Regulated
<b>PSP:</b>	Product Stewardship Program
<b>RCFC:</b>	Refractory Ceramic Fibers Coalition
<b>RCRA:</b>	Resource Conservation and Recovery Act
<b>REG:</b>	Recommended Exposure Guideline (RCFC)
<b>REL:</b>	Recommended Exposure Limit (NIOSH)
<b>RID:</b>	Carriage of Dangerous Goods by Rail (International Regulations)
<b>SARA:</b>	Superfund Amendments and Reauthorization Act
<b>SARA Title III:</b>	Emergency Planning and Community Right to Know Act
<b>SARA Section 302:</b>	Extremely Hazardous Substances
<b>SARA Section 304:</b>	Emergency Release
<b>SARA Section 311:</b>	MSDS/List of Chemicals and Hazardous Inventory
<b>SARA Section 312:</b>	Emergency and Hazardous Inventory
<b>SARA Section 313:</b>	Toxic Chemicals and Release Reporting
<b>STEL:</b>	Short Term Exposure Limit
<b>SVF:</b>	Synthetic Vitreous Fiber
<b>TDG:</b>	Transportation of Dangerous Goods
<b>TLV:</b>	Threshold Limit Value (ACGIH)
<b>TSCA:</b>	Toxic Substances Control Act
<b>TWA:</b>	Time Weighted Average
<b>WHMIS:</b>	Workplace Hazardous Materials Information System (Canada)

**Revision Summary:** Section 3: IARC update, Section 8: Respiratory Protection table expanded, Section 11: Minor changes, Section 16: Added PSP2002 information.

**MSDS Prepared By:** UNIFRAX RISK MANAGEMENT DEPARTMENT

005 09/29/05 AMMONIUM CHLORIDE

PRODUCT NAME: AMMONIUM CHLORIDE  
MSDS NUMBER: MZA5724  
DATE ISSUED: 9/29/2005  
SUPERSEDES: 8/18/2004  
ISSUED BY: 008614

=====

AMMONIUM CHLORIDE

=====

1. PRODUCT IDENTIFICATION

SYNONYMS: SAL AMMONIAC; AMMONIUM MURIATE  
CAS NO: 12125-02-9  
MOLECULAR WEIGHT: 53.49  
CHEMICAL FORMULA: NH4CL

Distributed by:  
Univar USA Inc.  
17425 NE Union Hill Road  
Redmond, WA 98052  
425-889-5000

=====

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO	PERCENT	HAZARDOUA
AMMONIUM CHLORIDE	12125-02-9	99 - 100%	YES

=====

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

-----

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

POTENTIAL HEALTH EFFECTS

-----

INHALATION:

CAUSES IRRITATION TO THE RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE COUGHING, SHORTNESS OF BREATH.

INGESTION:

CAUSES IRRITATION TO THE GASTROINTESTINAL TRACT. SYMPTOMS MAY INCLUDE NAUSEA, VOMITING AND DIARRHEA.

SKIN CONTACT:

CAUSES IRRITATION TO SKIN. SYMPTOMS INCLUDE REDNESS, ITCHING, AND PAIN.

EYE CONTACT:

CAUSES IRRITATION, REDNESS, AND PAIN.

CHRONIC EXPOSURE:

NO INFORMATION FOUND.

EPAHO082001396

AGGRAVATION OF PRE-EXISTING CONDITIONS:  
NO INFORMATION FOUND.

=====

#### 4 FIRST AID MEASURES

##### INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

##### INGESTION:

INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

##### SKIN CONTACT:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE.

##### EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION.

=====

#### 5. FIRE FIGHTING MEASURES

##### FIRE:

NOT CONSIDERED TO BE A FIRE HAZARD.

AT FIRE TEMPERATURES AMMONIUM CHLORIDE BEGINS TO CORRODE METALS AND MAY DISSOCIATE INTO AMMONIA AND HYDROGEN CHLORIDE. MIXTURES OF ABOUT 16% TO 25% (BY VOLUME) AMMONIA GAS IN AIR ARE FLAMMABLE.

##### EXPLOSION:

NOT CONSIDERED TO BE AN EXPLOSION HAZARD.

##### FIRE EXTINGUISHING MEDIA:

USE ANY MEANS SUITABLE FOR EXTINGUISHING SURROUNDING FIRE. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

##### SPECIAL INFORMATION:

IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

=====

#### 6. ACCIDENTAL RELEASE MEASURES

VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. SPILLS: SWEEP UP AND CONTAINERIZE FOR RECLAMATION OR DISPOSAL. VACUUMING OR WET SWEEPING MAY BE USED TO AVOID DUST DISPERSAL. US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS AND RELEASES TO SOIL, WATER AND AIR IN EXCESS OF REPORTABLE QUANTITIES. THE TOLL FREE NUMBER FOR THE US COAST GUARD NATIONAL RESPONSE CENTER IS (800) 424-8802.

=====

#### 7. HANDLING AND STORAGE

KEEP IN A TIGHTLY CLOSED CONTAINER. PROTECT FROM PHYSICAL DAMAGE. STORE IN A COOL, DRY, VENTILATED AREA AWAY FROM SOURCES OF HEAT, MOISTURE AND INCOMPATIBILITIES. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY

## PRECAUTIONS LISTED FOR THE PRODUCT.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### AIRBORNE EXPOSURE LIMITS:

##### AMMONIUM CHLORIDE:

-ACGIH THRESHOLD LIMIT VALUE (TLV):

10 MG/M3 (TWA); 20 MG/M3 (STEL) FUME

#### VENTILATION SYSTEM:

A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA. PLEASE REFER TO THE ACGIH DOCUMENT, "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES", MOST RECENT EDITION, FOR DETAILS.

#### PERSONAL RESPIRATORS (NIOSH APPROVED):

IF THE EXPOSURE LIMIT IS EXCEEDED AND ENGINEERING CONTROLS ARE NOT FEASIBLE, A HALF FACEPIECE PARTICULATE RESPIRATOR (NIOSH TYPE N95 OR BETTER FILTERS) MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST.. A FULL-FACE PIECE PARTICULATE RESPIRATOR (NIOSH TYPE N100 FILTERS) MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT, OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY, OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST. IF OIL PARTICLES (E.G. LUBRICANTS, CUTTING FLUIDS, GLYCERINE, ETC.) ARE PRESENT, USE A NIOSH TYPE R OR P FILTER. FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A FULL-FACEPIECE PC TIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES.

#### SKIN PROTECTION:

WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

#### EYE PROTECTION:

USE CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE DUSTING OR SPLASHING OF SOLUTIONS IS POSSIBLE. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:  
WHITE POWDER.

BOILING POINT:  
520C (968F)

ODOR:  
ODORLESS.

MELTING POINT:  
338C (640F) SUBLIMES.

SOLUBILITY:  
29.7G/100G WATER @ 0C (32F)

VAPOR DENSITY (AIR=1):  
1.9

SPECIFIC GRAVITY:  
1.5<sup>2</sup>

VAPOR PRESSURE (MM HG):  
1.0 @ 160C (320F)

PH:  
5.5 (1% AQ.SOL.); 5.1 (3%  
AQ.SOL.); 5.0 (10% AQ.SOL.)

EVAPORATION RATE (BUAC=1):  
NO INFORMATION FOUND.

% VOLATILES BY VOLUME @ 21C (70F):  
0

=====

## 10. STABILITY AND REACTIVITY

### STABILITY:

STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE.

### HAZARDOUS DECOMPOSITION PRODUCTS:

INVOLVEMENT IN A FIRE CAUSES DECOMPOSITION TO FORM HYDROGEN CHLORIDE AND AMMONIA.

### HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

### INCOMPATIBILITIES:

CONCENTRATED ACIDS, STRONG BASES, SILVER SALTS, POTASSIUM CHLORATE, AMMONIUM NITRATE, BROMINE TRIFLUORIDE AND IODINE HEPTAFLUORIDE. AMMONIUM CHLORIDE REACTS EXPLOSIVELY WITH POTASSIUM CHLORATE OR BROMINE TRIFLUORIDE, AND VIOLENTLY WITH BROMINE PENTAFLUORIDE, AMMONIUM COMPOUNDS, NITRATES, AND IODINE HEPTAFLUORIDE. EXPLOSIVE NITROGEN TRICHLORIDE MAY RESULT FROM REACTION OF AMMONIUM CHLORIDE AND HYDROGEN CYANIDE.

### CONDITIONS TO AVOID:

HEAT, MOISTURE, INCOMPATIBLES.

=====

## 11. TOXICOLOGICAL INFORMATION

ORAL RAT LD50 : 1650 MG/KG INVESTIGATED AS A MUTAGEN.

### --- /CANCER LISTS/ ---

INGREDIENT	---NTP CARCINOGEN---		IARC CATEGORY
	KNOWN	ANTICIPATED	
AMMONIUM CHLORIDE (12125-02-9)	NO	NO	NONE

=====

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

NO INFORMATION FOUND.

### ENVIRONMENTAL TOXICITY:

NO INFORMATION FOUND.

=====

## 13. DISPOSAL CONSIDERATIONS

WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS.

DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS.

=====

## 14. TRANSPORT INFORMATION

NOT REGULATED.

15. REGULATORY INFORMATION

-----/CHEMICAL INVENTORY STATUS - PART 1/-----  
 I REDIENT TSCA EC JAPAN AUSTRALIA  
 -----  
 AMMONIUM CHLORIDE (12125-02-9) YES YES YES YES

-----/CHEMICAL INVENTORY STATUS - PART 2/-----  
 INGREDIENT KOREA --CANADA-- DSL NDSL PHIL.  
 -----  
 AMMONIUM CHLORIDE (12125-02-9) YES YES NO YES

-----/FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1/-----  
 INGREDIENT -SARA 302- SARA 313-  
 RQ TPQ LIST CHEMICAL CATG  
 -----  
 AMMONIUM CHLORIDE (12125-02-9) NO NO NO NO

-----/FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2/-----  
 INGREDIENT CERCLA -RCRA- -TSCA-  
 ----- 261.33 8(D)  
 -----  
 AMMONIUM CHLORIDE (12125-02-9) 5000 NO NO

CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA: NO  
 SARA 311/312: ACUTE: YES CHRONIC: NO FIRE: NO PRESSURE: NO  
 REACTIVITY: NO (PURE / SOLID)

AUSTRALIAN HAZCHEM CODE: NONE ALLOCATED.  
 POISON SCHEDULE: NONE ALLOCATED.

WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE HAZARD CRITERIA OF  
 THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS  
 ALL OF THE INFORMATION REQUIRED BY THE CPR.

16. OTHER INFORMATION

NFPA RATINGS:  
 HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

----- FOR ADDITIONAL INFORMATION -----  
 CONTACT: MSDS COORDINATOR UNIVAR USA INC.  
 DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400  
 ----- NOTICE -----

\*\*\*\*\* UNIVAR USA INC ("UNIVAR") EXPRESSLY DISCLAIMS

ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN,

AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL  
 DAMAGES.\*\*

DO NOT USE INGREDIENT INFORMATION AND/OR INGREDIENT PERCENTAGES IN THIS MSDS

EPAHO082001400

PRODUCT SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM YOUR LOCAL UNIVAR SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, UNIVAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND UNIVARS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

\* \* \* E N D O F M S D S \* \* \*

MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
1750 OVERVIEW DRIVE  
P.O. BOX 12000  
ROCK HILL, S.C. 29731-2000

EMERGENCY TELEPHONE  
NUMBER  
8:00 am - 5:00 pm  
(803) 817-3500

CHEMTREC - 24 HOURS  
1-800-424-9300

(b) (4)



MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
ROCK HILL, S.C. 29731-2000

(b) (4)



MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
ROCK HILL, S.C. 29731-2000

(b) (4)



MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
ROCK HILL, S.C. 29731-2000

(b) (4)



MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
ROCK HILL, S.C. 29731-2000

(b) (4)



MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
ROCK HILL, S.C. 29731-2000

(b) (4)



MATERIAL SAFETY  
DATA SHEET

ATOTECH USA INC.  
ROCK HILL, S.C. 29731-2000

(b) (4)





4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** PA-3356

**Expiration Date** 6/3/2011

**Generator:** Cameron Compression Systems

**Address:** 600 South First Street  
Ponca City, OK 74604

### Waste Information

**Name of Waste:** Copper sulfate solution

**TCEQ Waste Code #:** product

**Container Type:**

**Detailed Description of Process Generating Waste:**

used acidic plating "this product is NOT waste, it is being used for its intended purpose"

**Color:** blue

**Odor:** mild

**pH:** <1

**Physical State:**

**Incompatibilities:** strong bases/caustic

**Safety Related Data/Special Handling:**

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001409

JB/MM



Product

<input type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	--

**SECTION 1: Generator Information**

Company: Cameron Compression Systems  
 Address: 600 South First Street  
 City: Ponca City State: OK Zip: 74604  
 Contact: J. Moman Title: Env. Mgr.  
 Phone Number: (580) 767-8101 Fax Number: (580) 761-0521  
 24/hr Phone Number: (580) 761-0699  
 US EPA ID No: \_\_\_\_\_  
 State ID No: DD0040 SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information -** ☐ Same as Above

Company: Sierra Chemical Corp.  
 Address: 4524 Southlake Pkwy., Suite 34, PMB 101  
 City: Hoover State: AL Zip: 35244  
 Contact: M. Pinson Title: CFO  
 Phone Number: (205) 982-7799 Fax Number: (205) 982-0608

**SECTION 3: General Description of the Waste**Name of Waste: Copper sulfate solution

Detailed Description of Process Generating Waste: \_\_\_\_\_

Used acidic plating solution "This material is not a waste it is a product being used for its intended purpose"

Physical State: ☒ Liquid ☐ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color: Blue Odor: MildSpecific Gravity (water=1): >1.0 Density: <10 lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phaseContainer Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☐ One-TimeQuantity: quarterly

EPAHO082001410



**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. none

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

Strong bases/caustics

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: none

TCLP Volatiles: none

TCLP Semi-Volatiles: none

Reactivity: none

Corrosivity: Yes

Ignitability: No

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☒ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

5/31/09

Printed Name/Title: \_\_\_\_\_

L. Pinson/President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

6-2-09

☒ Approved

☐ Rejected

Approval Number: \_\_\_\_\_



**CES Environmental  
Services, Inc.**

**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**1. Base Pricing (including freight):**

\$ 0.30 / gal + trans + fsc

**2. Contamination Limit (maximum limit before surcharges apply):**

< 0.5% Solids, > 15% acid by titration

**3. Surcharge Pricing:**

**4. Special Testing Requirements:**

Acid Analysis: pH, s.g., %  $H_2SO_4$  by titration,

**5. Treatment and Handling Protocol:**

Place into acid product tank

**6. Treated Wastewater Discharge Subcategory:**

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

See Section 4

**8. Management for Product Recovered/Recycled (if applicable)**

See Section 5



4904 Griggs Road  
Houston, TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1676

To: Joy Baker  
Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

Date: 5/19/09

From: Miles Root

Lab Memo: 09-093

Subject: **Sierra Chemical Evaluations 0509-18 thru 21**

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

**Evaluation 0509-18** is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

**Evaluation 0509-19** is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

**Evaluation 0509-20** is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.

**Evaluation 0509-21** is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream.

This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

Sierra Chemicals				
Evaluations 0509-18 thru 21				
	0509-18	0509-19	0509-20	0509-21
H2SO4, wt%	47			
NaOH, wt%		8.8		
Specific Gravity	1.137	1.147		
CES Use	No	No	Yes	Yes
PACES Use	Yes	Yes	No	No
Odor Issues	None	None	None	None
Treatability	Use @ PACES	N/A	Difficult	Very Difficult
Phenols, ppm			0	0
Metals			Treated Sx	Untreated Sx
Ni			0.11	71
Zn			0.022	2.432
Cu			0.032	0.558
Cd			0.01	0.146
Cr			0	174
Recommended?	Yes	Yes	Yes	Yes



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 6/3/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** PA-3357

**Expiration Date** 6/3/2011

**Generator:** Cameron Compression Systems

**Address:** 600 South First Street  
Ponca City, OK 74604

### Waste Information

**Name of Waste:** Sodium hydroxide solution

**TCEQ Waste Code #:** Product

**Container Type:**

**Detailed Description of Process Generating Waste:**

used plating solution "this material is not a waste, it is product being used for what its intended purpose"

**Color:** varies

**Odor:** mild

**pH:** >14

**Physical State:**

**Incompatibilities:** strong acids

**Safety Related Data/Special Handling:**

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001418



JB/MM  
Product

<input type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input checked="" type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	--

**SECTION 1: Generator Information**

Company: Cameron Compression Systems  
Address: 600 South First Street  
City: Ponca City State: OK Zip: 74604  
Contact: J. Moman Title: Env. Mgr.  
Phone Number: (580) 767-8101 Fax Number: (580) 761-0521  
24/hr Phone Number: (580) 761-0699  
US EPA ID No: \_\_\_\_\_  
State ID No: DD0040 SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information - ☐ Same as Above**

Company: Sierra Chemical Corp.  
Address: 4524 Southlake Pkwy., Suite 34, PMB 101  
City: Hoover State: AL Zip: 35244  
Contact: M. Pinson Title: CFO  
Phone Number: (205) 982-7799 Fax Number: (205) 982-0608

**SECTION 3: General Description of the Waste**

Name of Waste: Sodium hydroxide solution

Detailed Description of Process Generating Waste: \_\_\_\_\_

Used plating solution "This material is not a waste it is a product being used for its intend purpose"

Physical State: ☒ Liquid ☐ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: Mild

Specific Gravity (water=1): >1.0 Density: <10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☐ One-Time

Quantity: Quarterly

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)  
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009  
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

**If "Yes", then please list ALL applicable codes:**

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

**Texas State Waste Code Number:**

Recycle/Product

**Proper US DOT Shipping Name:**

UN3263, Corrosive liquids, basic, inorganic, n.o.s., (sodium hydroxide)

**Class:** 8 UN/NA:

UN3263, Co PG :

18

**RQ:**

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
none		>14		0 <u>mg/l</u>		0 <u>mg/l</u>		,1 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>	0	<u>mg/l</u>

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. none

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

Strong Acids

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: none

TCLP Volatiles: none

TCLP Semi-Volatiles: none

Reactivity: none

Corrosivity: yes

Ignitability: none

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☒ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
- Cadmium: 0.2 mg/L
  - Chromium: 8.9 mg/L
  - Copper: 4.9 mg/L
  - Nickel: 37.5 mg/L
- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
- ☒ Metals Subcategory
  - ☐ Oils Subcategory
  - ☐ Organics Subcategory

**SECTION 10: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis

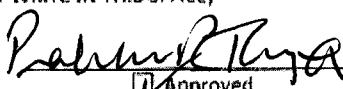
**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:  Date: 5/31/09

Printed Name/Title: L. Pinson/President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: <u></u>	
Date: <u>6-2-09</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected
Approval Number: <u>PA-3357</u>	



**CES Environmental  
Services, Inc.**

**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**1. Base Pricing (including freight):**

\$ 0.40/gal + trans

**2. Contamination Limit (maximum limit before surcharges apply):**

< 0.5% Solids, > 5% Caustic by titration

**3. Surcharge Pricing:**

**4. Special Testing Requirements:**

Caustic Analysis: pH, s.g., % NaOH by titration

**5. Treatment and Handling Protocol:**

Put into NaOH product tank

**6. Treated Wastewater Discharge Subcategory:**

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

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**8. Management for Product Recovered/Recycled (if applicable)**

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**CES Environmental  
Services, Inc.**

4904 Griggs Road  
Houston, TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1676

To: Joy Baker  
Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

Date: 5/19/09

From: Miles Root

Lab Memo: 09-093

Subject: **Sierra Chemical Evaluations 0509-18 thru 21**

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

**Evaluation 0509-18** is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

**Evaluation 0509-19** is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

**Evaluation 0509-20** is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.

**Evaluation 0509-21** is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream.

This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

Sierra Chemicals				
Evaluations 0509-18 thru 21				
	0509-18	0509-19	0509-20	0509-21
H2SO4, wt%	47			
NaOH, wt%		8.8		
Specific Gravity	1.137	1.147		
CES Use	No	No	Yes	Yes
PACES Use	Yes	Yes	No	No
Odor Issues	None	None	None	None
Treatability	Use @ PACES	N/A	Difficult	Very Difficult
Phenols, ppm			0	0
Metals			Treated Sx	Untreated Sx
Ni			0.11	71
Zn			0.022	2.432
Cu			0.032	0.558
Cd			0.01	0.146
Cr			0	174
Recommended?	Yes	Yes	Yes	Yes



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 6/24/2009

Dear Lee Pinson

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** HOU-3394

**Expiration Date** 6/24/2011

**Generator:** Cameron Compression Systems

**Address:** 600 South First Street  
Ponca City, OK 74604

### Waste Information

**Name of Waste:** Oily Absorbent

**TCEQ Waste Code #:** OUTS3101

**Container Type:**

**Detailed Description of Process Generating Waste:**

Absorbent contaminated with oil from metals finishing and manufacturing.

**Color:** Varies                      **Odor:** Varies/hydrocarbon                      **pH:** 3-11

**Physical State:**

**Incompatibilities:** Strong oxidizers

**Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001427



XB/mm Houston DS

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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**SECTION 1: Generator Information**

Company: Cameron Compression Systems  
Address: 600 South First Street  
City: Ponca City State: OK Zip: 74604  
Contact: Joelle Moman Title: Environmental Manager  
Phone Number: 580-767-8101 Fax Number: 580-761-0521  
24/hr Phone Number: 580-761-0699  
US EPA ID No: \_\_\_\_\_  
State ID No: D0022 SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information -** ☐ Same as Above

Company: Sierra Chemical Corp  
Address: 4524 Southlake Pkwy, Suite 34, PMB 101  
City: Hoover State: AL Zip: 35244  
Contact: M. Pinson Title: CFO  
Phone Number: 205-982-7799 Fax Number: 205-982-0608

**SECTION 3: General Description of the Waste**

Name of Waste: Oily Absorbent  
Detailed Description of Process Generating Waste: \_\_\_\_\_

Absorbent contaminated with oil from metals finishing and manufacturing

Physical State: ☐ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: varies/hydrocarbon

Specific Gravity (water=1): 1-2 Density: 8.3-17 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 5-15

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)  
 Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009  
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

**If "Yes", then please list ALL applicable codes:**

**Texas State Waste Code Number:** OUTS-3101

**Proper US DOT Shipping Name:** Non RCRA/Non DOT Regulated Material (Oily Pads & Absorbent)

**Class:** NA **UN/NA:** NA **PG :** Na **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140 deg F		3-11		NA <u>mg/l</u>		NA <u>mg/l</u>		<2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	<10,000	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

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**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

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**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

Strong Oxidizers

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**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	x
TCLP Volatiles:	x
TCLP Semi-Volatiles:	x
Reactivity:	x
Corrosivity:	x
Ignitability:	x

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**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10 Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

6/5/09

Printed Name/Title: \_\_\_\_\_

Lee Pinson, Authorized Representative for Generator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

6-24-09

☒ Approved

☐ Rejected

Approval Number: \_\_\_\_\_



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$ 35/drum + trans + fsc

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

- ① oily pads & filters Recycling
- ② class 1 Solids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A    ☐ Subcategory B    ☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

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**8. Management for Product Recovered/Recycled (if applicable)**

--

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10 Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

6/5/09

Printed Name/Title: \_\_\_\_\_

Lee Pinson, Authorized Representative for Generator

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

☐ Approved

☐ Rejected

Approval Number: \_\_\_\_\_

Lab header  
units  
STEX?



JB/mm

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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### SECTION 1: Generator Information

Company: Cameron Compression Systems  
Address: 600 South First Street  
City: Ponca City State: OK Zip: 74604  
Contact: Joelle Moman Title: Environmental Manager  
Phone Number: 580-767-8101 Fax Number: 580-761-0521  
24/hr Phone Number: 580-761-0699  
US EPA ID No: \_\_\_\_\_  
State ID No: D0022 SIC Code: \_\_\_\_\_

### SECTION 2: Billing Information - ☐ Same as Above

Company: Sierra Chemical Corp  
Address: 4524 Southlake Pkwy, Suite 34, PMB 101  
City: Hoover State: AL Zip: 35244  
Contact: M. Pinson Title: CFO  
Phone Number: 205-982-7799 Fax Number: 205-982-0608

### SECTION 3: General Description of the Waste

Name of Waste: Non Haz Sludge  
Detailed Description of Process Generating Waste: \_\_\_\_\_

Non hazardous sludge generated from rinse tanks at metals finishing & fabrication

Physical State: ☐ Liquid ☒ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: varies/hydrocarbon

Specific Gravity (water=1): 1.2 Density: 10-12 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 2-10

EPAHO082001436

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)  
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009  
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

**If "Yes", then please list ALL applicable codes:**

**Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?** ☐ Yes ☒ No

**If "Yes", then please list ALL applicable codes:**

**Texas State Waste Code Number:** OUTS-6031

**Proper US DOT Shipping Name:** Non RCRA/Non DOT Regulated Material (Oily Sludge)

**Class:** NA **UN/NA:** NA **PG :** Na **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140 deg F		3-11		NA <u>mg/l</u>		NA      mg/l		<2      %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	mg/l	<10,000	mg/l	NA	mg/l	NA	mg/l	NA	mg/l

#### SECTION 4: Physical and Chemical Data

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.      Analytical

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

Strong Oxidizers

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:              analytical

TCLP Volatiles:           x

TCLP Semi-Volatiles:    x

Reactivity:               analytical

Corrosivity:               analytical

Ignitability:               analytical

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☐ YES

☒ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

6/5/09

Printed Name/Title: \_\_\_\_\_

Lee Pinson, Authorized Representative for Generator

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

☐ Approved

☐ Rejected

Approval Number: \_\_\_\_\_



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$55/drum + trans + fsc

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Class 1 Sludge

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A    ☐ Subcategory B    ☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable)**

--

# Environmental Testing Inc. 488-2400

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

## Analytical Report

Report Date: 02/03/2009  
Order #: 2009010344

Laboratory Certificate # 7211

Client: Mr. Tom Sturgill  
Ashland  
5021 Woodhaven Circle  
Harrah, OK 73045

Project: Cameron Specialties

## Analytical Results

Client Sample ID: Pit Water

ETI ID: 1

Sample Collected : 01/26/2009 @ 10:00

Matrix: Aqueous

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
TCLP Arsenic	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Barium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Cadmium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Chromium	0.99	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Lead	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Mercury	<0.002	mg/L	01/29/2009 11:41:00 AM	JS	245.1
TCLP Selenium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Silver	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
Corrosivity (as pH)	3.66	S.U.	02/02/2009 11:40:00 AM	LH	4500 H+ B
Cyanide	<0.50	mg/L	02/03/2009 03:10:00 PM	LH	4500-CN E
Flashpoint	>140	°F	02/02/2009 11:00:00 AM	LH	1010 A
Sulfide	<50.0	mg/L	02/03/2009 11:05:00 AM	LH	4500-S2 D

Client Sample ID: Pit Water Sludge

ETI ID: 2

Sample Collected : 01/26/2009 @ 10:00

Matrix: Solids

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
TCLP Arsenic	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Barium	0.67	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Cadmium	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Chromium	0.19	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Lead	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Mercury	<0.002	mg/L	01/29/2009 11:43:00 AM	JS	245.1
TCLP Selenium	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Silver	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
Corrosivity (as pH)	4.88	S.U.	02/03/2009 10:30:00 AM	LH	9045A
Cyanide	<50.0	mg/Kg	01/29/2009 01:20:00 PM	LH	9010B

# Analytical Results

Client Sample ID: **Pit Water Sludge**

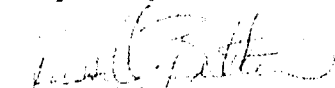
ETI ID: 2

Sample Collected : **01/26/2009 @ 10:00**

Matrix: **Solids**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
Flashpoint	>140	°F	02/02/2009 11:00:00 AM	LH	1010A
Sulfide	<50.0	mg/Kg	02/03/2009 11:00:00 AM	LH	Hach 8131

Respectfully Submitted:



**Russell Britten**

**President**

Unless ETI receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Order #: 2009010344

Page 2 of 6

EPAHO082001443

## Quality Control Report

Report Date: 02/03/2009  
Order #: 2009010344

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

Laboratory Certificate # 7211

## Quality Control

### Aqueous

#### Blank

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	<0.01	mg/L	1
TCLP Barium	<0.01	mg/L	1
TCLP Cadmium	<0.01	mg/L	1
TCLP Chromium	<0.01	mg/L	1
TCLP Lead	<0.01	mg/L	1
TCLP Mercury	<0.0002	mg/L	1
TCLP Selenium	<0.01	mg/L	1
TCLP Silver	<0.01	mg/L	1
Cyanide	<0.15	mg/L	1
Sulfide	<0.05	mg/L	1

#### Duplicate

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	0.0	% dif.	1
TCLP Barium	3.3	% dif.	1
TCLP Cadmium	0.0	% dif.	1
TCLP Chromium	0.0	% dif.	1
TCLP Lead	0.0	% dif.	1
TCLP Mercury	0.0	% dif.	1
TCLP Selenium	0.0	% dif.	1
TCLP Silver	0.0	% dif.	1
Corrosivity (as pH)	0.0	% dif.	1

#### LCS

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	108	% rec.	1
TCLP Barium	100	% rec.	1
TCLP Cadmium	106	% rec.	1
TCLP Chromium	105	% rec.	1
TCLP Lead	104	% rec.	1
TCLP Mercury	86	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	100	% rec.	1
Cyanide	115	% rec.	1

# Quality Control

## Aqueous

### LCS

Parameter	QC Value	Units	ETI ID
Flashpoint	99	% rec.	1
Sulfide	104	% rec.	1

### Matrix Spike

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	106	% rec.	1
TCLP Barium	93	% rec.	1
TCLP Cadmium	99	% rec.	1
TCLP Chromium	95	% rec.	1
TCLP Lead	92	% rec.	1
TCLP Mercury	88	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	92	% rec.	1
Cyanide	118	% rec.	1
Sulfide	82	% rec.	1

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	107	% rec.	1
TCLP Barium	90	% rec.	1
TCLP Cadmium	100	% rec.	1
TCLP Chromium	95	% rec.	1
TCLP Lead	91	% rec.	1
TCLP Mercury	93	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	92	% rec.	1
Cyanide	113	% rec.	1
Sulfide	96	% rec.	1

## Solids

### Blank

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	<0.01	mg/L	2
TCLP Barium	<0.01	mg/L	2
TCLP Cadmium	<0.01	mg/L	2
TCLP Chromium	<0.01	mg/L	2
TCLP Lead	<0.01	mg/L	2
TCLP Mercury	<0.0002	mg/L	2
TCLP Selenium	<0.01	mg/L	2
TCLP Silver	<0.01	mg/L	2
Cyanide	<0.05	mg/L	2
Sulfide	<0.05	mg/L	2

# Quality Control

## Solids

### Duplicate

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	0.0	% dif.	2
TCLP Barium	3.3	% dif.	2
TCLP Cadmium	0.0	% dif.	2
TCLP Chromium	0.0	% dif.	2
TCLP Lead	0.0	% dif.	2
TCLP Mercury	0.0	% dif.	2
TCLP Selenium	0.0	% dif.	2
TCLP Silver	0.0	% dif.	2

### LCS

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	108	% rec.	2
TCLP Barium	100	% rec.	2
TCLP Cadmium	106	% rec.	2
TCLP Chromium	105	% rec.	2
TCLP Lead	104	% rec.	2
TCLP Mercury	86	% rec.	2
TCLP Selenium	104	% rec.	2
TCLP Silver	100	% rec.	2
Cyanide	117	% rec.	2
Flashpoint	99	% rec.	2
Sulfide	120	% rec.	2

### Matrix Spike

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	106	% rec.	2
TCLP Barium	93	% rec.	2
TCLP Cadmium	99	% rec.	2
TCLP Chromium	95	% rec.	2
TCLP Lead	92	% rec.	2
TCLP Mercury	88	% rec.	2
TCLP Selenium	104	% rec.	2
TCLP Silver	92	% rec.	2
Cyanide	106	% rec.	2
Sulfide	44M	% rec.	2

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	107	% rec.	2
TCLP Barium	90	% rec.	2
TCLP Cadmium	100	% rec.	2
TCLP Chromium	95	% rec.	2
TCLP Lead	91	% rec.	2
TCLP Mercury	93	% rec.	2



fs/m m

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

### SECTION 1: Generator Information

Company: Cameron Compression Systems  
Address: 600 South First Street  
City: Ponca City State: OK Zip: 74604  
Contact: Joelle Moman Title: Environmental Manager  
Phone Number: 580-767-8101 Fax Number: 580-761-0521  
24/hr Phone Number: 580-761-0699  
US EPA ID No: \_\_\_\_\_  
State ID No: D0022 SIC Code: \_\_\_\_\_

### SECTION 2: Billing Information - ☐ Same as Above

Company: Sierra Chemical Corp  
Address: 4524 Southlake Pkwy, Suite 34, PMB 101  
City: Hoover State: AL Zip: 35244  
Contact: M. Pinson Title: CFO  
Phone Number: 205-982-7799 Fax Number: 205-982-0608

### SECTION 3: General Description of the Waste

Name of Waste: Dip Tank Wastewater

Detailed Description of Process Generating Waste:

Wastewater from Dip tank in parts cleaning and manufacturing

Physical State: ☒ Liquid ☐ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: varies/hyrdocarbon

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 2-3

EPAHO082001448

# Quality Control

## Solids

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Selenium	104	% rec.	2
TCLP Silver	92	% rec.	2
Cyanide	93	% rec.	2
Sulfide	43M	% rec.	2

E = Estimated Value (above linear range)  
M = Out of Control Due to Matrix Effect  
D = Surrogate or Matrix Spike Diluted Out  
Q = Outside of QC Limits on Both Original and Rerun  
C = Possible Laboratory Contamination  
\* = Out of Control

J = Estimated Value (below linear range)  
\*TA = Lab ID: 9412  
\*OL = Lab ID: 8306  
\*SM = Lab ID: 9940

Order #: 2009010344

Page 6 of 6

EPAHO082001447

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)  
 Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009  
☐ D010 ☐ D011

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

**Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)?** ☐ Yes ☒ No

**Texas State Waste Code Number:** OUTS-2051

Non RCRA/Non DOT Regulated Material (rinse water)

**Class:** NA **UN/NA:** NA **PG :** Na **RQ:** NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140 deg F		3-11		NA <u>mg/l</u>		NA <u>mg/l</u>		<2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	<u>mg/l</u>	<10,000	<u>mg/l</u>	NA <u>mg/l</u>		NA <u>mg/l</u>		NA <u>mg/l</u>	

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste

approval package. Analytical

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

Strong Oxidizers

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals: analytical

TCLP Volatiles: x

TCLP Semi-Volatiles: x

Reactivity: analytical

Corrosivity: analytical

Ignitability: analytical

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☒ YES ☐ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☒ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☒ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10 Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

6/5/09

Printed Name/Title: \_\_\_\_\_

Lee Pinson, Authorized Representative for Generator

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

☐ Approved

☐ Rejected

Approval Number: \_\_\_\_\_

**1. Base Pricing (including freight):**

\$ 0.10 per gallon

**2. Contamination Limit (maximum limit before surcharges apply):**

< 2% Solids (phenol, metals) std

**3. Surcharge Pricing:**

\$0.01 / % Solids / gal up to 10% Solids \$0.005 / % Solids  
Surcharge thereafter

**4. Special Testing Requirements:**

metals, phenol, TOC, treatability, pH

**5. Treatment and Handling Protocol:**

Sub Cat A WW

**6. Treated Wastewater Discharge Subcategory:**

☐ Subcategory A    ☐ Subcategory B    ☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable)**

--

# Environmental Testing Inc. 488-2400

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

## Analytical Report

Report Date: 02/03/2009  
Order #: 2009010344

Laboratory Certificate # 7211

Client: Mr. Tom Sturgill  
Ashland  
5021 Woodhaven Circle  
Harrah, OK 73045

Project: Cameron Specialties

## Analytical Results

Client Sample ID: Pit Water

ETI ID: 1

Sample Collected : 01/26/2009 @ 10:00

Matrix: Aqueous

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
TCLP Arsenic	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Barium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Cadmium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Chromium	0.99	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Lead	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Mercury	<0.002	mg/L	01/29/2009 11:41:00 AM	JS	245.1
TCLP Selenium	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
TCLP Silver	<0.1	mg/L	01/29/2009 12:13:32 PM	JS	200.7
Corrosivity (as pH)	3.66	S.U.	02/02/2009 11:40:00 AM	LH	4500 H+ B
Cyanide	<0.50	mg/L	02/03/2009 03:10:00 PM	LH	4500-CN E
Flashpoint	>140	°F	02/02/2009 11:00:00 AM	LH	1010 A
Sulfide	<50.0	mg/L	02/03/2009 11:05:00 AM	LH	4500-S2 D

Client Sample ID: Pit Water Sludge

ETI ID: 2

Sample Collected : 01/26/2009 @ 10:00

Matrix: Solids

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
TCLP Arsenic	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Barium	0.67	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Cadmium	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Chromium	0.19	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Lead	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Mercury	<0.002	mg/L	01/29/2009 11:43:00 AM	JS	245.1
TCLP Selenium	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
TCLP Silver	<0.1	mg/L	01/29/2009 12:15:34 PM	JS	200.7
Corrosivity (as pH)	4.88	S.U.	02/03/2009 10:30:00 AM	LH	9045A
Cyanide	<50.0	mg/Kg	01/29/2009 01:20:00 PM	LH	9010B

# Analytical Results

Client Sample ID: **Pit Water Sludge**

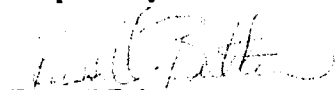
ETI ID: 2

Sample Collected : **01/26/2009 @ 10:00**

Matrix: **Solids**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
Flashpoint	>140	°F	02/02/2009 11:00:00 AM	LH	1010A
Sulfide	<50.0	mg/Kg	02/03/2009 11:00:00 AM	LH	Hach 8131

Respectfully Submitted:



**Russell Britten**

**President**

Unless ETI receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Order #: 2009010344

Page 2 of 6

EPAHO082001455

## Quality Control Report

Report Date: 02/03/2009  
Order #: 2009010344

4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

Laboratory Certificate # 7211

## Quality Control

### Aqueous

#### Blank

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	<0.01	mg/L	1
TCLP Barium	<0.01	mg/L	1
TCLP Cadmium	<0.01	mg/L	1
TCLP Chromium	<0.01	mg/L	1
TCLP Lead	<0.01	mg/L	1
TCLP Mercury	<0.0002	mg/L	1
TCLP Selenium	<0.01	mg/L	1
TCLP Silver	<0.01	mg/L	1
Cyanide	<0.15	mg/L	1
Sulfide	<0.05	mg/L	1

#### Duplicate

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	0.0	% dif.	1
TCLP Barium	3.3	% dif.	1
TCLP Cadmium	0.0	% dif.	1
TCLP Chromium	0.0	% dif.	1
TCLP Lead	0.0	% dif.	1
TCLP Mercury	0.0	% dif.	1
TCLP Selenium	0.0	% dif.	1
TCLP Silver	0.0	% dif.	1
Corrosivity (as pH)	0.0	% dif.	1

#### LCS

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	108	% rec.	1
TCLP Barium	100	% rec.	1
TCLP Cadmium	106	% rec.	1
TCLP Chromium	105	% rec.	1
TCLP Lead	104	% rec.	1
TCLP Mercury	86	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	100	% rec.	1
Cyanide	115	% rec.	1

# Quality Control

## Aqueous

### LCS

Parameter	QC Value	Units	ETI ID
Flashpoint	99	% rec.	1
Sulfide	104	% rec.	1

### Matrix Spike

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	106	% rec.	1
TCLP Barium	93	% rec.	1
TCLP Cadmium	99	% rec.	1
TCLP Chromium	95	% rec.	1
TCLP Lead	92	% rec.	1
TCLP Mercury	88	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	92	% rec.	1
Cyanide	118	% rec.	1
Sulfide	82	% rec.	1

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	107	% rec.	1
TCLP Barium	90	% rec.	1
TCLP Cadmium	100	% rec.	1
TCLP Chromium	95	% rec.	1
TCLP Lead	91	% rec.	1
TCLP Mercury	93	% rec.	1
TCLP Selenium	104	% rec.	1
TCLP Silver	92	% rec.	1
Cyanide	113	% rec.	1
Sulfide	96	% rec.	1

## Solids

### Blank

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	<0.01	mg/L	2
TCLP Barium	<0.01	mg/L	2
TCLP Cadmium	<0.01	mg/L	2
TCLP Chromium	<0.01	mg/L	2
TCLP Lead	<0.01	mg/L	2
TCLP Mercury	<0.0002	mg/L	2
TCLP Selenium	<0.01	mg/L	2
TCLP Silver	<0.01	mg/L	2
Cyanide	<0.05	mg/L	2
Sulfide	<0.05	mg/L	2

# Quality Control

## Solids

### Duplicate

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	0.0	% dif.	2
TCLP Barium	3.3	% dif.	2
TCLP Cadmium	0.0	% dif.	2
TCLP Chromium	0.0	% dif.	2
TCLP Lead	0.0	% dif.	2
TCLP Mercury	0.0	% dif.	2
TCLP Selenium	0.0	% dif.	2
TCLP Silver	0.0	% dif.	2

### LCS

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	108	% rec.	2
TCLP Barium	100	% rec.	2
TCLP Cadmium	106	% rec.	2
TCLP Chromium	105	% rec.	2
TCLP Lead	104	% rec.	2
TCLP Mercury	86	% rec.	2
TCLP Selenium	104	% rec.	2
TCLP Silver	100	% rec.	2
Cyanide	117	% rec.	2
Flashpoint	99	% rec.	2
Sulfide	120	% rec.	2

### Matrix Spike

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	106	% rec.	2
TCLP Barium	93	% rec.	2
TCLP Cadmium	99	% rec.	2
TCLP Chromium	95	% rec.	2
TCLP Lead	92	% rec.	2
TCLP Mercury	88	% rec.	2
TCLP Selenium	104	% rec.	2
TCLP Silver	92	% rec.	2
Cyanide	106	% rec.	2
Sulfide	44M	% rec.	2

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Arsenic	107	% rec.	2
TCLP Barium	90	% rec.	2
TCLP Cadmium	100	% rec.	2
TCLP Chromium	95	% rec.	2
TCLP Lead	91	% rec.	2
TCLP Mercury	93	% rec.	2

# Quality Control

## Solids

### Matrix Spike Dup

Parameter	QC Value	Units	ETI ID
TCLP Selenium	104	% rec.	2
TCLP Silver	92	% rec.	2
Cyanide	93	% rec.	2
Sulfide	43M	% rec.	2

E = Estimated Value (above linear range)  
M = Out of Control Due to Matrix Effect  
D = Surrogate or Matrix Spike Diluted Out  
Q = Outside of QC Limits on Both Original and Rerun  
C = Possible Laboratory Contamination  
\* = Out of Control

J = Estimated Value (below linear range)  
\*TA = Lab ID: 9412  
\*OL = Lab ID: 8306  
\*SM = Lab ID: 9940

Order #: 2009010344

Page 6 of 6

EPAHO082001459



4904 Griggs Road  
Houston, TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1676

To: Joy Baker  
Cc: Matt Bowman, Clint Hopkins, Prabhaker, Sam Brown

Date: 5/19/09

From: Miles Root

Lab Memo: 09-093

Subject: **Sierra Chemical Evaluations 0509-18 thru 21**

Four different samples of waste material from Sierra Chemical (Cameron Compression), have been evaluated for potential processing/use at CES/PACES. These four samples are evaluations 0509-18 thru 21. A summary of each sample follows.

**Evaluation 0509-18** is a spent sulfuric acid. The potential volume is one load every two months. This sample has a density of 1.370. An addition of 50% NaOH to neutralize this acid shows it to be just under 50%. These two pieces of data indicate that this acid is around 47% wt% sulfuric acid.

It is clean looking material which springs out crude cresylic acid or liberates hydrogen sulfide from spent caustics. I treated this sample as water just to see how it would process. Of course it requires an excessive amount of caustic for it to be neutralized, but the water produced is good looking with low metals. Since it will add value to our business as an acid we should use it in that capacity. I recommend that we try this acid at PACES in either our cresylic acid or NaSH production process.

**Evaluation 0509-19** is some type of spent caustic. The potential volume of this material is one load per quarter. This sample has a density of 1.147, which should equate to 15% caustic. A titration shows this caustic to be 8.8 wt% as NaOH, but it does contain a significant amount of sodium carbonate as well. Its high carbonate content is indicated by the excessive foaming noted during the titration with HCl. Sodium carbonate will not be a part of any reaction for strengthening our NaSH production, and will actually lower the sulfide component. Currently we get no compensation for the carbonates in our NaSH product.

The strength of usable caustic is too low for profitable use at PACES. Metals on the neat sample show very high zinc and chromium. If we can make some good money for taking this material then it needs to go to PACES. We can put it into the NaSH product tank to consume the small amount of hydrogen sulfide that it will do. It will not make us any money on the NaSH sales side so we need to cover our costs up front. I don't see a better option if we really want to take this material.

**Evaluation 0509-20** is waste water. The potential volume is three loads per month. This water has a pH of 6 and contains orange/brown silt from its previous use. When treated, it produces an extremely high volume of solids which I estimate to be at least 75% when spun down. Metals and TOC are low, with no phenols. Odor is not an issue. We can treat this water at CES but need to price as though we are going to filter press this entire load, as that may happen.

**Evaluation 0509-21** is an unknown cleaning solution. It is called CL 2000 spent acid. The potential volume of this material is four totes per quarter. It has a pH of around 3 but does not act like it has much acid strength left in it. When reacted with sulfidic caustic its reaction causes only a trace quantity of hydrogen sulfide to be released. It also forms an emulsion looking product that will need to be disposed. Odor is not really an issue with this stream.

This material contains a soap or detergent as it foams when shaken, and the foam remains for quite some time afterwards. This material does not really treat. It forms a sludge when mixed with caustic and/or lime that never separates out into anything that can be processed. Metals on the neat sample are extremely high in zinc and chromium.

This is not an acid that will add value to CES or PACES, nor does it respond to waste water treatment. Since it is only four totes per quarter our only logical processing scheme is to bring it into CES and slowly process it over time into our tanks. The volume of sludge that is produced will evenly distribute itself out over thousands of gallons of water. These four totes will all end up in our filter cake box over time. If our pricing will be high enough to cover this considerable amount of extra handling that will be involved and we can make some good money, then this is an option we should seriously consider.

The table below summarizes the analytical data and recommendations on the above samples.

Sierra Chemicals				
Evaluations 0509-18 thru 21				
	0509-18	0509-19	0509-20	0509-21
H2SO4, wt%	47			
NaOH, wt%		8.8		
Specific Gravity	1.137	1.147		
CES Use	No	No	Yes	Yes
PACES Use	Yes	Yes	No	No
Odor Issues	None	None	None	None
Treatability	Use @ PACES	N/A	Difficult	Very Difficult
Phenols, ppm			0	0
Metals			Treated Sx	Untreated Sx
Ni			0.11	71
Zn			0.022	2.432
Cu			0.032	0.558
Cd			0.01	0.146
Cr			0	174
Recommended?	Yes	Yes	Yes	Yes

— Arkema (Arkema - Haden Rd) —  
NOM Overheads

Jesse Hubetz

713-450-6706

WOM Sulfides

Normal Ethyl Mercaptan



# n-OCTYL MERCAPTAN

Material Safety Data Sheet

Arkema Inc.

## 1 PRODUCT AND COMPANY IDENTIFICATION

### Thio and Fine Chemicals

Arkema Inc.  
2000 Market Street  
Philadelphia, PA 19103

### EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 767-5089 (24Hrs)

### Information Telephone Numbers

### Phone Number

### Available Hrs

Customer Service

1-800-628-4453

8:30 to 5:30 EST

Product Name n-OCTYL MERCAPTAN

Product Synonym(s)

Chemical Family Alkyl Mercaptan

Chemical Formula C<sub>8</sub>H<sub>18</sub>S

Chemical Name 1-Octanethiol

EPA Reg Num

Product Use

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry Number	Typical %	OSHA
n-Octanethiol	111-88-6	98%	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

## 3 HAZARDS IDENTIFICATION

### Emergency Overview

Colorless liquid, mercaptan odor.

**WARNING!**

CAUSES EYE AND SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE NAUSEA, HEADACHE OR DIZZINESS.

### Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be slightly toxic if swallowed, no more than slightly toxic if absorbed through skin, no more than moderately toxic if inhaled, moderately irritating to eyes, and slightly irritating to skin. This material has a strong objectionable odor that may cause nausea, headache, or dizziness. Repeated contact may cause an allergic skin reaction.

## 4 FIRST AID MEASURES



## n-OCTYL MERCAPTAN

Material Safety Data Sheet

Arkema Inc.

### 4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IF ON SKIN, immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. Call a Poison Control Center. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### 5 FIRE FIGHTING MEASURES

#### Fire and Explosive Properties

Auto-Ignition Temperature	237 C		
Flash Point	70 C (158 F)	Flash Point Method	Seta CC
Flammable Limits- Upper	NE		
Lower	NE		

#### Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

#### Fire Fighting Instructions

Do NOT permit water to enter containers. Material may spatter or foam if contacted with water. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

#### Fire and Explosion Hazards

When burned, the following hazardous products of combustion can occur:

Hydrogen sulfide  
Sulfur oxides  
Oxides of carbon

### 6 ACCIDENTAL RELEASE MEASURES

#### In Case of Spill or Leak

Ventilate the area. Contain spill by building a dike using absorbent material. Consult with environmental engineer or professional to determine if neutralization is appropriate and for handling procedures for residual materials. Do not use solid bleach for neutralization, as fire or violent reaction can occur. Collect the liquid and solid absorbent into a drum approved for waste disposal. Flush area with water. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

### 7 HANDLING AND STORAGE

**7 HANDLING AND STORAGE****Handling**

Do not get in eyes, on skin or on clothing.  
Wash thoroughly after handling.  
Keep away from heat, sparks and flames.  
Keep container closed.  
Use only with adequate ventilation.

CONTAINER HAZARDOUS WHEN EMPTY. Emptied container retains vapor and product residue. Follow labeled warnings even after container is emptied. RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DO NOT CUT, DRILL GRIND OR WELD ON OR NEAR THIS CONTAINER. Improper disposal or reuse of this container may be dangerous and/or illegal.

**Storage**

Store in well ventilated area away from heat and sources of ignition such as flame, sparks and static electricity. Ensure that all storage and handling equipment is properly rated, grounded and installed to satisfy electrical classification requirements. Static electricity may accumulate and create a fire hazard. All storage containers, including containers such as drums, cylinders and IBC's, must be bonded and grounded during filling and emptying operations. Store away from oxidizers and reactive materials. Keep container tightly closed. Observe all federal, state and local regulations and National Fire Protection Association (NFPA) Codes which pertain to the specific local conditions of storage and use, including OSHA 29 CFR 1910.106 and NFPA 30, 70, 77, and 497.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Eye / Face Protection**

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

**Skin Protection**

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

**Respiratory Protection**

Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions, where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Airborne Exposure Guidelines for Ingredients**

The components of this product have no established Airborne Exposure Guidelines

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Odor	Colorless liquid, mercaptan odor.
pH	NE
Specific Gravity	0.847 @ 15.5 C
Vapor Pressure	0.03 psia @ 100 F
Vapor Density	5
Melting Point	-49 C
Freezing Point	NA
Boiling Point	199 C
Solubility In Water	4 mg/l @ 20 C
Solubility in Other Materials	Alcohols, ethyl ether
Percent Volatile	100
Viscosity	1.33 cP
Molecular Weight	146.3
Other Physical Data	Refractive index: 1.454 @ 20 C Critical temperature: Tc = 391 C Critical pressure: Pc = 2.48 MPa (24.8 bar)

**10 STABILITY AND REACTIVITY****Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

**Incompatibility**

Avoid contact with strong oxidizing agents and strong bases.

**Hazardous Decomposition Products**

None known.

**11 TOXICOLOGICAL INFORMATION****Toxicological Information**

Data on this material and/or its components are summarized below.

Single exposure (acute) studies indicate:

Oral - Slightly Toxic to Rats (LD50 2,000 mg/kg)

Dermal - No More than Slightly Toxic to Rats (LD0 2,000 mg/kg)

Inhalation - No More than Moderately Toxic to Rats (4-hr LC0 0.24 mg/l)

**n-OCTYL MERCAPTAN**

Material Safety Data Sheet

Arkema Inc.

**11 TOXICOLOGICAL INFORMATION**

Eye Irritation - Moderately Irritating to Rabbits

Skin Irritation - Slightly Irritating to Rabbits

Skin allergy was observed in guinea pigs following repeated skin exposure. No genetic changes were noted in tests using bacteria or human cells.

**12 ECOLOGICAL INFORMATION****Ecotoxicological Information**

This material is highly toxic to *Daphnia magna* (48-hr EC50 <0.42 mg/l).

**Chemical Fate Information**

This material is not readily biodegradable (10% after 28-days; OECD 301D).

**13 DISPOSAL CONSIDERATIONS****Waste Disposal**

Incineration is the recommended method for disposal observing all local, state and federal regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations. Take appropriate measures to prevent release to the environment.

**14 TRANSPORT INFORMATION**

DOT Name

Non-bulk Domestic:

Not regulated

DOT Technical Name

DOT Hazard Class

UN Number

DOT Packing Group

PG

RQ

Marine Pollutant

Yes

DOT Special Information

Bulk and non-bulk International:

Environmentally hazardous substance, liquid, n.o.s.  
(n-Octanethiol), 9; UN3082; PGIII; MP

Domestic Bulk:

Combustible liquid, n.o.s.

(n-Octanethiol), 3; NA1993; PGIII; MP

**15 REGULATORY INFORMATION****Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)**

Immediate (Acute) Health Y

Fire

N

Delayed (Chronic) Health N

Reactive

N

Sudden Release of Pressure

N

The components of this product are all on the TSCA Inventory list.

**n-OCTYL MERCAPTAN**

Material Safety Data Sheet

Arkema Inc.

**Ingredient Related Regulatory Information:****SARA Reportable Quantities**

n-Octanethiol

CERCLA RQ

SARA TPQ

NE

**Massachusetts Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

n-Octanethiol

**New Jersey Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

n-Octanethiol

**Pennsylvania Right to Know**

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

n-Octanethiol

**16 OTHER INFORMATION****Revision Information**

Revision Date 02 MAR 2007

Revision Number 13

Supersedes Revision Dated 30-DEC-2005

**Revision Summary**

Revised HEIS, revised sections 3,11,12.

**Key**

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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- Katoen Natie (RW - LaPorte) -  
Non Bulk Disposal

# Rineco

819 Vulcan Road -- Haskell  
P.O. Box 729, Benton, AR  
Office (501) 778-9089 Fax (501) 776-2864

Prepared by: Misty Duncan

## FOR OFFICE USE ONLY

Account Rep:	Michael Jaskowiak	Walk Through:	No
Region:	S02	Special Instructions:	No
Profile #:	0906-10141	Create Date:	6/9/2009
Broker Rep #:		Last Cert Date:	6/9/2009
Broker Profile ID:	CES Environmental Serv	Expiration Date:	6/9/2010
Status:	Approved -- Rineco Processing		

### I. WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the waste for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name: **Kateon Natie**

USEPA I.D. No. **TXCESQG37015**

Address: **10925 Hwy 225**

State I.D. No.

Phone: **713-676-1460**

Fax: **713-676-1676**

**Houston, TX 77571**

Title:

Technical Contact: **Joy Baker**

24 hour Phone:

24 Hour Emergency Contact:

Is this material located or generated in a foreign country? No

Foreign Address:

### II. GENERAL INFORMATION

Material Name: Methyl Ethyl Ketone Containing Black Ink

Source Code:

- Yes A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?  
No B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?  
No C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?  
No D. Is waste a spent solvent as defined in 40 CFR 261.31?  
Yes E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: unused material

Anticipated Monthly Volume: 2 drums per year (1 gallon containers inside drum)

Bulk: No Drum: Yes Other: No

### III. MATERIAL COMPOSITION

COMPONENT	Concentration			PPM
	Min	Max	Actual	
Methyl Ethyl Ketone, cas #78-93-3	90.00	99.00		
Carbon Black Ink	1.00	10.00		

### IV. PHYSICAL CHARACTERISTICS

Physical State: Liquid  
Free Liquid: Yes  
Viscosity: Low  
Layers: Single  
Odor: Mild  
Flash Point: < 73F  
BTU:  
pH Level: NA  
Actual pH:  
Density:

### V. OTHER CHARACTERISTICS

No	Explosive	No	Dioxin
No	Radioactive	No	Shock Sensitive
No	Sulfide	No	PCB
No	Etiological	No	Cyanide
No	Pyrophoric	No	Water Reactive

## VI. SHIPPING INFORMATION

Profile #: 0906-10141

DOT Hazardous Material: Yes

ER Guide #: 127

Proper Shipping Name: Waste Methyl Ethyl Ketone

Hazard Class and Division: 3

UN or NA: UN1193

Packaging Group: II

RQ: No

If Yes:

Addl. Info:

USEPA HAZARDOUS WASTE: Yes

Waste I.D.  
Numbers:D001  
U159

## VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24.

Check only if waste exceeds regulatory threshold levels and include analytical date if available.

Constituent	Regulatory level PPM	TCLP PPM	Total PPM	Know ledge	Constituent	Regulatory level PPM	TCLP PPM	Total PPM	Know ledge
D004 Arsenic	5.0				D024 m-Cresol	200.0			
D005 Barium	100.0				D025 p-Cresol	200.0			
D006 Cadmium	1.0				D026 Cresol	200.0			
D007 Chromium	5.0				D027 1,4-Dichlorobenzene	7.5			
D008 Lead	5.0				D028 1,2-Dichloroethane	0.5			
D009 Mercury	0.2				D029 1,1 Dichloroethylene	0.7			
D010 Selenium	1.0				D030 2,4 Dinitrotoluene	0.13			
D011 Silver	5.0				D031 Heptachlor	0.008			
D012 Endrin	0.02				D032 Hexachlorobenzene	0.13			
D013 Lindane	0.4				D033 Hexachlorobutadiene	0.5			
D014 Methoxychlor	10.0				D034 Hexachloroethane	3.0			
D015 Toxaphene	0.5				D035 Methyl Ethyl Ketone	200.0			
D016 2,4 Dichlorophenoxyacetic acid	10.0				D036 Nitrobenzene	2.0			
D017 2,4,5 TP Silvex	1.0				D037 Pentachlorophenol	100.0			
D018 Benzene	0.5				D038 Pyridine	5.0			
D019 Carbon Tetrachloride	0.5				D039 Tetrachloroethylene	0.7			
D020 Chlordane	0.03				D040 Trichloroethylene	0.5			
D021 Chlorobenzene	100.0				D041 2,4,5 Trichlorophenol	400.0			
D022 Chloroform	6.0				D042 2,4,6 Trichlorophenol	2.0			
D023 o-Cresol	200.0				D043 Vinyl Chloride	0.2			

## VIII. Benzene Waste Operations NESHA Generator Certification. Complete only if D018 and/or U019 appear in section 6 (shipping information).

1. Is this waste generated by an industry with any of the following SIC Codes: 2911,2800-2899,3312 or 4953?
2. Does this stream have Benzene concentration of 10ppm or more?
3. Does this stream contain greater than 10% moisture?
4. Is this company's Total Annual Benzene (TAB) of 10Mg or greater per year?
5. Is NESHA form required?

## GENERATOR CERTIFICATION: THIS CERTIFICATION IS REQUIRED FOR EACH PROFILE.

This above information is to be held confidential and is true and accurate to the best of my knowledge

Signature: 

Date: 5/26/09

Print Name: DAVID DRESEN

Title: E&amp;S MANAGER

**Rineco**

819 Vulcan Road--Haskell  
P.O. Box 729, Benton AR  
Office (501) 778-0089  
Fax (501) 778-0201

Page 1 of 2

Prepared By: \_\_\_\_\_

**I. WASTE MATERIAL PROFILE SHEET**

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the waste for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name:	Katoen Nattie	USEPA I.D. No.	
Address:	10925 Hwy 225	State I.D. No.	CE506
	Houston, TX 77571	Phone:	713-676-1480
Technical Contact:	Joy Baker	Fax:	713-748-8664
24 hour Emergency Contact		Title:	Agent for Generator
Is this material located or generated in a foreign country?	N	24 hour Phone:	
Foreign Address:		Generator Reference Num.	

**II. GENERAL INFORMATION**

Material Name: Methyl Ethyl Ketone containing carbon black ink

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21?  
B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?  
C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?  
D. Is waste a spent solvent as defined in 40 CFR 261.31?  
E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: unused material

Anticipated Monthly Volume: 2 drums / yr

Bulk: ☐ Drum: ☒ Other: ☒ Explain: 1 gallon containers inside drum

**III. MATERIAL COMPOSITION**

Component	Concentration			PPM	IV. PHYSICAL CHARACTERISTICS			
	Min	Max	Actual		Physical State	Solid	Semi-solid	Liquid
MEK	90.0%	99.0%			Free Liquid:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
carbon Black ink	1.0%	10.0%			Microstr:	Low <input checked="" type="checkbox"/>	Medium <input type="checkbox"/>	High <input type="checkbox"/>
					Layers:	Single <input checked="" type="checkbox"/>	Bi-Layered <input type="checkbox"/>	Multi <input type="checkbox"/>
					Odor:	None <input type="checkbox"/>	Mild <input type="checkbox"/>	Strong <input checked="" type="checkbox"/>
					Flash Point:	<73F <input checked="" type="checkbox"/>	73F-140F <input type="checkbox"/>	
						140F-200F <input type="checkbox"/>	>200F <input type="checkbox"/>	
					Leak:	<2 <input type="checkbox"/>	>12.5 <input type="checkbox"/>	
					Actual pH:			
					Density:		BTU:	
					V. OTHER CHARACTERISTICS			
					Yes	No	Yes	No
					Explosive	<input checked="" type="checkbox"/> No	Dioxin	<input checked="" type="checkbox"/> No
					Radioactive	<input checked="" type="checkbox"/> No	Shock Sensitive	<input checked="" type="checkbox"/> No
					Sulfide	<input checked="" type="checkbox"/> No	PCB	<input checked="" type="checkbox"/> No
					Etological	<input checked="" type="checkbox"/> No	Cyanide	<input checked="" type="checkbox"/> No
					Pyrophoric	<input checked="" type="checkbox"/> No	Water Reactive	<input checked="" type="checkbox"/> No

EPAHO082001473

VI. SHIPPING INFORMATION				Page 2 of 2					
DOT Hazardous Material <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		ER Guide Page # <span style="float: right;">page 200, Guide 127</span>							
Proper Shipping Name: <u>Ethyl Methyl Ketone</u>									
Hazard Class and Division: <u>3</u>		UN o NA <u>UN1193</u>		Packaging Group : <u>II</u>					
RQ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes Special Provisions: <u>366 LBS</u>							
USEPA HAZARDOUS WASTE: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
Waste I.D. Numbers: <u>D001, U159</u>		<u>FLV6203H</u>							
VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS as defined by 40 CFR 261.24. Check only if waste exceeds regulatory threshold levels and include any analytical date if available.									
Constituent	Regulatory Level PPM	TCLP PPM	Total PPM	Know-ledge	Constituent	Regulatory Level PPM	TCLP PPM	Total PPM	Know-ledge
D004 Arsenic	5.000				D024m-Cresol	200.000			
D005 Barium	100.000				D025p-Cresol	200.000			
D006 Cadmium	1.000				D026 Cresol	200.000			
D007 Chromium	5.000				D027 1,4, Dichloro	7.500			
D008 Lead	5.000				D028 1,2 Dichloro	0.500			
D009 Mercury	0.300				D029 1,1, Dichloro	0.700			
D010 Selenium	1.000				D0302,4 Dinitrotol	0.130			
D011 Silver	5.000				D031 Heptachlor	0.010			
D012 Ethin	0.020				D032 Hexachlorol	0.130			
D013 Lindane	0.400				D033 Hexachlorot	0.500			
D014 Methoxychlor	10.000				D034 Hexachlorot	3.000			
D015 Toxaphene	0.500				D035 Methyl Ethyl	200.000			
D0162,4 Dichloropoheno	10.000				D036 Nitrobenzen	2.000			
D0172,4,5, TP Silvex	1.000				D037 Pentachloro	100.000			
D018 Benzene	0.500				D038 Pyridine	5.000			
D019 Carbon Tetrachlor	0.500				D039 Tetrachlorot	0.700			
D020 Chlordane	0.030				D040 Trichloroeth	0.500			
D021 Chlorobenzene	100.000				D041 2,4,5 Trichk	400.000			
D022 Chloroform	0.000				D042 2,4,6 Trichk	2.000			
D023 o-Cresol	200.000				D043 Vinyl Chlorik	0.200			
VIII. Benzene Waste Operations NESHAP Generator Certification. Complete only if D018 and/or U019 appear in section VI ( shipping information ).									
1. Is this waste generated by an industry with any of the following SIC codes : 2911,2800-2899,3312 or 4953 ?					Yes	No			
2. Does this stream have Benzene concentration of 10 ppm or more?					<input type="checkbox"/>	<input checked="" type="checkbox"/>			
3. Does this stream contain greater than 10% moisture?					<input type="checkbox"/>	<input checked="" type="checkbox"/>			
4. Is this company's Total Annual Benzene (TAB) of 10 Mg or greater per year?					<input type="checkbox"/>	<input checked="" type="checkbox"/>			
AUTHORIZATION TO CORRECT WASTE MATERIAL PROFILE SHEET: In the event Rineco determines that it is necessary to make corrections on this Waste Material Profile Sheet to make the information herein consistent with the results of the sample characterization and/or applicable federal and state statutes and regulations, Rineco will contact the Generator and receive oral authorization to make such corrections.									
Generator <input checked="" type="checkbox"/> does <input type="checkbox"/> es not hereby authorize Rineco to make such changes pursuant to this paragraph.									
GENERATOR CERTIFICATION: THIS CERTIFICATION IS REQUIRED FOR EACH PROFILE. This above information is to be held confidential and is true and accurate to the best of my knowledge									
Signature: <u>[Signature]</u>		Date: <u>5/26/09</u>							
Print Name: <u>DAVID DRESEN</u>		Title: <u>EQS MANAGER</u>							

WCL# FLV6203H



**Texas Commission on Environmental Quality (TCEQ)  
One-Time Shipment Request for Texas Waste Code  
For Shipment of Hazardous and Class 1 Waste**

Pursuant to the generator notification requirements of 30 Texas Administrative Code (TAC) Section 335.6, the generator of a solid waste is required to submit to TCEQ detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from TCEQ.

<b>Generator Contact Person:</b> David Oresen	
<b>Generator Company Name:</b> Katoen Natie	
<b>Generator Mailing Address:</b> 10925 Hwy 225 Houston, TX 77571	
<b>Generator Phone No.:</b> (281) 941-1008	<b>Generator Fax No.:</b> (281) 941-1090
<b>Texas Solid Waste Registration (SWR) No.</b> <small>(Only if Registered)</small>	<b>U.S. EPA Identification No.</b>
<b>Generating Site Location:</b> (check if same as above) <input checked="" type="checkbox"/> <small>Must be street address or physical description including zip code</small>	
<b>Designated Treatment, Storage, and/or Disposal Facility name and address:</b> Fireco, 819 Vulcan Rd - Haskelly Benton, AR	

\*Only fill out System Type Code if you selected Source Code G25.

Description of Waste <small>(Do Not Use DOT description or Trade name)</small>	Form Code	Class Code	Origin Code	Source Code	System Type Code*	EPA Waste Code
1. UN 1193, Ethyl Methyl ketone, 3, 11	203	H	1	611	H061	D001, U159
<b>Texas Waste Code:</b> <b>(Assigned by TCEQ)</b>						
2.						
<b>Texas Waste Code:</b> <b>(Assigned by TCEQ)</b>						

**Generator/Representative**

I certify that the above information is complete and accurate to the best of my knowledge.

Signature

Date

<b>Company Name:</b> <small>(If different than generator)</small>	
<b>Company Mailing Address:</b>	
<b>Company Phone No.:</b> (     )	<b>Company Fax No.:</b> (     )


<b>Processed Date:</b>	<b>Processed By:</b>	<b>TCEQ Region:</b>
------------------------	----------------------	---------------------

If you have questions on how to fill out this form or about the One-Time Shipment program, please contact us at 512/239-6413. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.  
TCEQ-0757 (Rev. 05/10/2007)

EPAHO082001475

0001, U159  
Safety Klean/Rinse?  
David Dresen

MSDS Number: M4628 \*\*\*\*\* Effective Date: 09/11/08 \*\*\*\*\* Supersedes: 05/19/08

<b>MSDS</b> Material Safety Data Sheet	
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08866	 NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.
24 Hour Emergency Telephone: 800-896-2161 CHEMTREC: 1-800-424-9300	
National Response in Canada CANUTEC: 613-896-6996	
Outside U.S. and Canada Chemtree: 703-527-3887	
All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.	

## METHYL ETHYL KETONE

### 1. Product Identification

**Synonyms:** 2-Butanone; ethyl methyl ketone; MEK; Methyl acetone  
**CAS No.:** 78-93-3  
**Molecular Weight:** 72.11  
**Chemical Formula:** CH<sub>3</sub>COCH<sub>2</sub>CH<sub>3</sub>  
**Product Codes:**  
J.T. Baker: 5385, 9214, 9319, 9323, 9414, Q531  
Mallinckrodt: 6206, 6233, 6240, 6243

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Methyl Ethyl Ketone	78-93-3	99 - 100%	Yes

### 3. Hazards Identification

#### Emergency Overview

**DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.**

#### SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)  
Flammability Rating: 3 - Severe (Flammable)  
Reactivity Rating: 1 - Slight  
Contact Rating: 2 - Moderate  
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER  
Storage Color Code: Red (Flammable)

#### Potential Health Effects

##### Inhalation:

Causes irritation to the nose and throat. Concentrations above the TLV may cause headache, dizziness, nausea, shortness of breath, and vomiting. Higher concentrations may cause central nervous system depression and unconsciousness.

##### Ingestion:

May produce abdominal pain, nausea. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms expected to parallel inhalation.

##### Skin Contact:

Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.

##### Eye Contact:

Vapors are irritating to the eyes. Splashes can produce painful irritation and eye damage.

##### Chronic Exposure:

Prolonged skin contact may defat the skin and produce dermatitis. Chronic exposure may cause central nervous system effects.

##### Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

#### 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**

Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Skin Contact:**

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

#### 5. Fire Fighting Measures

**Fire:**

Flash point: -9C (16F) CC

Autoignition temperature: 404C (759F)

Flammable limits in air % by volume:

lcl: 1.4; ucl: 11.4

Extremely Flammable.

**Explosion:**

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. Sensitive to static discharge.

**Fire Extinguishing Media:**

Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. This highly flammable liquid must be kept from sparks, open flame, hot surfaces, and all sources of heat and ignition.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker SOLUSORB® solvent adsorbent is recommended for spills of this product.

#### 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):  
200 ppm (TWA)

-ACGIH Threshold Limit Value (TLV):  
200 ppm (TWA), 300 ppm (STEL)

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. Use explosion-proof equipment.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Butyl rubber is a suitable material for personal protective equipment.

**Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:**  
Clear, colorless liquid.  
**Odor:**  
Sharp mint-like odor.  
**Solubility:**  
29 g in 100 g of water.  
**Specific Gravity:**  
0.81 @ 20C/4C  
**pH:**  
No information found.  
**% Volatiles by volume @ 21C (70F):**  
100  
**Boiling Point:**  
80C (176F)  
**Melting Point:**  
-86C (-123F)  
**Vapor Density (Air=1):**  
2.5  
**Vapor Pressure (mm Hg):**  
78 @ 20C (68F)  
**Evaporation Rate (BuAc=1):**  
2.7 (Ether = 1)

## 10. Stability and Reactivity

**Stability:**  
Stable under ordinary conditions of use and storage.  
**Hazardous Decomposition Products:**  
Carbon dioxide and carbon monoxide may form when heated to decomposition.  
**Hazardous Polymerization:**  
Will not occur.  
**Incompatibilities:**  
Oxidizing materials, caustics, amines, ammonia, strong bases, chloroform, chlorosulfonic acid, oleum, potassium-t-butoxide, heat or flame, hydrogen peroxide, nitric acid. Can attack many plastics, resins and rubber.  
**Conditions to Avoid:**  
Heat, flames, ignition sources and incompatibles.

## 11. Toxicological Information

**Toxicological Data:**  
Oral rat LD50: 2737 mg/kg; inhalation rat LC50: 23,500 mg/m3/8-hr; skin rabbit LD50: 6480 mg/kg; investigated as a mutagen, reproductive effector.  
**Reproductive Toxicity:**  
Has shown teratogenic effects in laboratory animals.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Methyl Ethyl Ketone (78-93-3)	No	No	None

## 12. Ecological Information

**Environmental Fate:**  
When released into the soil, this material may leach into groundwater. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material is expected to have a half-life between 10 and 30 days. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.  
**Environmental Toxicity:**  
This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

**Domestic (Land, D.O.T.)**

-----  
**Proper Shipping Name:** ETHYL METHYL KETONE  
**Hazard Class:** 3  
**UN/NA:** UN1193  
**Packing Group:** II  
**Information reported for product/size:** 366LB

**International (Water, L.M.O.)**

-----  
**Proper Shipping Name:** ETHYL METHYL KETONE  
**Hazard Class:** 3  
**UN/NA:** UN1193  
**Packing Group:** II  
**Information reported for product/size:** 366LB

## 15. Regulatory Information

F, Xi  
 R11 - Highly flammable  
 R36 - Irritating to eyes  
 R66 - Repeated exposure may cause skin drying or cracking  
 R67 - Vapours may cause drowsiness or dizziness  
 S2 - Keep out of the reach of children  
 S9 - Keep container in a well-ventilated place  
 S16 - Keep away from sources of ignition - No smoking

-----\Chemical Inventory Status - Part 1\-----  

Ingredient	TSCA	EC	Japan	Australia
Methyl Ethyl Ketone (78-93-3)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----  

Ingredient	Korea	DSL	NDSL	Phil.
Methyl Ethyl Ketone (78-93-3)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----  

Ingredient	-SARA 302-	-SARA 313-
	RQ	TPQ
Methyl Ethyl Ketone (78-93-3)	No	No

-----\Federal, State & International Regulations - Part 2\-----  

Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8(d)
Methyl Ethyl Ketone (78-93-3)	5000	U159	No

Chemical Weapons Convention: No    TSCA 12(b): No    CDTA: Yes  
 SARA 311/312: Acute: Yes    Chronic: Yes    Fire: Yes    Pressure: No  
 Reactivity: No    (Pure / Liquid)

**Australian Hazchem Code:** 2[Y]E

**Poison Schedule:** S5

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: 1 Flammability: 3 Reactivity: 0

**Label Hazard Warning:**

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Label Precautions:**

Keep away from heat, sparks and flame.  
 Keep container closed.  
 Use only with adequate ventilation.  
 Wash thoroughly after handling.  
 Avoid breathing vapor.  
 Avoid contact with eyes, skin and clothing.

**Label First Aid:**

Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

MSDS Section(s) changed since last revision of document include: 3, 15.


**Disclaimer:**

\*\*\*\*\*

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\*\*\*\*\*

Prepared by: Environmental Health & Safety  
Phone Number: (314) 654-1600 (U.S.A.)

  
- Higman Marine Services  
Tugboat Clean

Randy Laughlin

cell: 409-988-3163

fax: 409-883-5661

tug boats

Higman Barge Lines

Orange, TX

# Fax

To: Randy Laughlin

Fax: 409-883-5661      Pages: 3

Re: Tugboat Clean      Date: 7/2/09

Randy -

Attached is a quote for the  
tug clean. If you have any  
questions, please call. Thx!

Joy  
281-701-8571



4904 Griggs Road  
Houston, TX 77021  
Phone: 713-676-1460  
Fax: 713-676-1676

July 2, 2009

Randy Laughlin  
Higman Marine Services  
Orange, TX

Re: Tugboat Engine Room Cleaning

Dear Mr. Laughlin:

CES Environmental Services appreciates the opportunity to present to you our proposal for the cleaning of the engine room in a tugboat at your facility in Orange, Texas. Please find below our proposed scope of service and associated pricing for your consideration.

CES will need BTEX and TCLP RCRA 8 metals run on a representative sample of the oily sludge prior to profile approval.

#### Scope of Service

The estimated time and materials quoted in this proposal assumes the removal of approximately 500 gallons of oily sludge from the engine room of a tugboat. CES will provide an air mover with operators to remove the residual sludge from the tugboat and any rinse waters generated.

- CES will provide a field service supervisor and two technicians to oversee the removal of the oily wastes in the engine room of the tugboat including removing the floor covering and pressure-washing the area below.
- CES will provide a pressure washer, PPE, and hoses to aid in the completion of the job.
- CES will prepare the profile documents on all wastes managed.
- CES will arrange for the disposal on wastes managed to include the transportation of the wastes.
- CES will provide for the manifest or bill of lading, labels, and appropriate shipping documents.
- It is assumed that Higman Marine maintains a current Coast Guard over-the-water permit and has the required emergency and confined space rescue equipment available on-site. If this is not the case, CES can transport our Coast Guard Emergency response trailer to Higman Marine at an additional cost of \$500 per day.

#### Estimated Costs for Completion of Work

Description of Service	Estimated Price	Estimated quantity	Total
Recycling of NonHazardous Oily water	\$0.18 per gallon	1,000 gal	\$180.00
Field Service Supervisor w/ truck	\$70 per hour	12 hours	\$840.00
2 Field Service Technicians	\$60 per hr/2 men	12 hours	\$720.00
Air Mover w/Operator	\$115 per hour	12 hours	\$1,380.00
Absorbent Pads	\$50 per bundle	1 bundle	\$50.00
Drum & Disposal of Pads	\$70 per drum	1 drum	\$70.00
Air Mover Washout	\$150 per washout	1 washout	\$150.00
Fuel Surcharge	9.5% of transportation		\$157.70
PPE (3 men)	\$75 per 3 men/day	3 days	\$225.00
Compliance Fee	1% of total		\$40.80
Estimated Total (if sludge has free oil)			\$4,346.20

**Conditions/Assumptions**

- The above pricing is based on time and materials, the customer's invoice will reflect the actual quantities utilized on the project.
- All equipment utilizing motor fuel is subject to a 4-hour minimum and fuel surcharge based on the current market price of motor fuel. As of the date of this proposal, the current fuel surcharge rate is 9.5%.
- A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.

It is our sincere hope that you find our proposed scope of service and associated pricing appealing and will consider utilizing the services offered by CES Environmental Service, Inc. If you have any questions or comments or would like to begin service, please feel free to contact me at 281-701-8511.

Sincerely,

Joy Baker



4904 Griggs Road  
Houston, TX 77021  
Phone: 713-676-1460  
Fax: 713-676-1676

January 29, 2009

Jim Wilson  
Kinder Morgan – Penn City Road location  
Houston, Texas 77015

**Re: Quote for Tugboat Containment Pan Recyclable Oily Water Removal**

Dear Mr. Wilson:

CES Environmental Services appreciates the opportunity to present to you a proposal for our cleaning services and the management of your material. Please find below our proposed scope of service and associated pricing for your consideration.

**Scope of Service**

- CES will provide transportation & product management of the material from the generator's facility in Houston, TX to our facility in Houston, TX.
- CES will empty and clean the containment areas of the tugboats.
- CES will provide for the profile, manifests or bills of lading, labels, and appropriate shipping documents.

**Estimated Costs for Completion of Work**

Recycling of Non Hazardous Oily Water (Apprx 1500 gallons per tug)	\$0.18	per gal	\$2,430.00
Vacuum Trailer (Trailer will be used 8 hrs a day)	\$65.00	per hour	\$2,340.00
Coast Guard Trailer	\$500.00	per day	\$2,500.00
Tools for Job	\$500.00	total	\$500.00
Person in Charge (PIC) (Total Estimate 8 hrs/day)	\$40.00	per hour	\$1,440.00
2 Technicians (Helpers) (Estimated 2 hours per tug) (Total Estimate 8 hrs/day)	\$28.00	per hour	\$2,016.00
Absorbant Pads (Estimated 9 Bundles Total)	\$50.00	total	\$450.00
Drum for Absorbant Pads (Estimated 3 Needed)	\$35.00	each	\$105.00
Field Service Truck for Empty Drums (Estimated 5 days)	\$150.00	day	\$750.00
Trailer Washout	\$150.00	total	\$150.00
Disposal for Absorbant Pads (3 drums)	\$35.00	drum	\$105.00
Tranportation (Minimum of 4 Hours Day)	\$70.00	per hour	\$1,400.00
Fuel Surcharge (Based on 4 Hours)	12.5%		\$268.75
Energy Surcharge (Based on Management of Product)	0.6%		\$14.58
Compliance Fee (1% Based on the total invoice)	1.0%		\$144.70
<b>Total Estimated Cost</b>			<b>\$14,614.03</b>

### **Conditions/Assumptions**

- Disposal pricing subject to change pending final profile approval and receipt of waste.
- All equipment utilizing motor fuel is subject to a fuel surcharge based on the current market price of motor fuel. As of the date of this proposal, the current fuel surcharge rate is 12.5%.
- An energy recovery fee will be assessed on all disposal based on the current US Department of Labor Producer Price index and Labor for fuels. As of the date of this proposal, the energy recovery fee is .6%.
- A compliance surcharge of 1% is assessed on the total invoice based on compliance filing fees from federal and or state governments.
- This is an estimate of the job. True costs will be reflected on the final invoice and will be based on actual hours and equipment used.

It is our sincere hope that you find our proposed scope of service and associated pricing appealing and will consider utilizing the services offered by CES Environmental Service, Inc. If you have any questions or comments or would like to begin service, please feel free to contact me at 281-785-0764.

Sincerely,

Shannon Ward

Vacuum trailer \$65  
 100 ft hose 200 ft. \$100  
 Brush bucket \$50  
 PIC. (Supplies) Charge \$35  
 Management Product \$12  
 1 helper \$25  
 Absorbent pads (1 Bundle) \$50  
 Trans. FSC  
5  
 1

~~2 ft water hose~~ \$10  
~~sprayer~~ \$20  
 3000  
 10  
 400

— Spansion  
General

for Delta

~~Aug 77~~

~~Aug 77~~  
★ App products  
lig drums -  
need letter of destruction

What we did w/ it

- fuels
- landfill
- blend /
- incineration
- oils
- blending
- encapsulation
- Deepwell injection

1 From  
Date 5/13/2008 Sender's FedEx Account Number 219516312  
Sender's Name David Hill Phone 512 934-5629  
Company SPANSON  
Address 5204 East Ben White Blvd  
City AUSTIN State TX ZIP 78741

## 2 Your Internal Billing Reference

Recipient's Name Joy Baker Phone 281 701-8511  
Company CES ENV. SERV.  
Recipient's Address 4904 Griggs Rd.  
We cannot deliver to P.O. boxes or P.O. ZIP codes.  
Address  
To request a package be held at a specific FedEx location, print FedEx address here.  
City Houston State TX ZIP 77021



8635 7048 0141

## 4a Express Package Service

1 ☒ FedEx Priority Overnight Next business morning.\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 5 ☐ FedEx Standard Overnight Next business afternoon.\* Saturday Delivery NOT available. 6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.\* Saturday Delivery NOT available.  
3 ☐ FedEx 2Day Second business day.\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 20 ☐ FedEx Express Saver Third business day.\* Saturday Delivery NOT available.  
\* To most locations.

## 4b Express Freight Service

7 ☐ FedEx 1Day Freight\* Next business day.\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 8 ☐ FedEx 2Day Freight Second business day.\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. 83 ☐ FedEx 3Day Freight Third business day.\* Saturday Delivery NOT available.  
\* Call for Confirmation. \*\* To most locations.

## 5 Packaging

6 ☐ FedEx Envelope\* 2 ☐ FedEx Pak\* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other  
\* Declared value limit \$500.

## 6 Special Handling

3 ☐ SATURDAY Delivery Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight. 1 ☐ HOLD Weekday at FedEx Location Not available for FedEx First Overnight. 31 ☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.  
Does this shipment contain dangerous goods?  
☐ No 4 ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 6 ☐ Dry Ice Dry ice, 9 UN 1845 x kg  
Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

## 7 Payment Bill to:

1 ☒ Sender Acct No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check  
Obtain Recip. Acct No. ☐

Total Packages 1 Total Weight 6.4 lbs  
Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details. Credit Card Auth.

## 8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.  
No Signature Required Package may be left without obtaining a signature for delivery. 10 ☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies. 34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.  
520

Rev. Date 10/00-Part #19281-©1994-2006 FedEx-PRINTED IN U.S.A. SRY

**1 From**  
**Date** 5/13/2008  
**Sender's Name** David Hill  
**Phone** 512 934-5029  
**Company** SPANSON  
**Address** 5204 GUYTON BLVD  
**City** AUSTIN **State** TX **ZIP** 78741

**2 Your Internal Billing Reference**  
**Recipient's Name** Jay Baker  
**Phone** 281 701-8511  
**Company** CES ENV. SERV.  
**Recipient's Address** 4904 Griggs Rd  
**City** HOUSTON **State** TX **ZIP** 77021



8635 7048 0141

**4a Express Package Service**  
☐ FedEx Priority Overnight  
☐ FedEx Standard Overnight  
☐ FedEx 2Day  
☐ FedEx Express Saver  
☐ FedEx 1Day Freight\*  
☐ FedEx 2Day Freight  
☐ FedEx 3Day Freight

**4b Express Freight Service**  
☐ Next business day\*\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.  
☐ Second business day\*\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.  
☐ Third business day\*\* Saturday Delivery NOT available.

**5 Packaging**  
☐ FedEx Envelope\*  
☐ FedEx Pak\*  
☐ FedEx Box  
☐ FedEx Tube  
☐ Other

**6 Special Handling**  
☐ SATURDAY Delivery  
☐ HOLD Weekday at FedEx Location  
☐ HOLD Saturday at FedEx Location  
☐ Dry Ice  
☐ Cargo Aircraft Only

**7 Payment**  
☒ Sender  
☐ Recipient  
☐ Third Party  
☐ Credit Card  
☐ Cash/Check

**Total Packages** 1  
**Total Weight** 1.4 lbs  
**Total Declared Value\*** \$ .00

**8 Residential Delivery Signature Options**  
☐ No Signature Required  
☐ Direct Signature  
☐ Indirect Signature

## Joy Baker

---

**From:** Frisch, Mike [Mike.Frisch@spansion.com]  
**Sent:** Friday, May 09, 2008 9:45 AM  
**To:** Joy Baker; Montalvo, Marcel  
**Subject:** RE: CES Environmental  
**Attachments:** 020608\_WS\_2008-465.pdf; Bulk Organic Solvent Waste MSDS.doc

Hi Joy – Attached are the MSDS and latest analytical for this stream. We typically ship 17 to 18 tanker trucks out per year (600,000 to 625,000 pounds per year). Please let us know if you find a good home for this stream. We can get you a sample if necessary.

Thanks for following up.

Cheers!

Mike

**Mike Frisch, Ph.D., P.E.**  
Member of Technical Staff  
EHS & Security  
Spansion Inc.

[Mike.frisch@Spansion.com](mailto:Mike.frisch@Spansion.com)  
Voice: (512) 934-5459  
Mobile: (512) 745-3692  
Fax: (512) 634-2670

*Currently purging Rhodan  
~ 0.51/gal  
SK??  
Lyotech?*

---

**From:** Joy Baker [mailto:jbaker@cesenvironmental.com]  
**Sent:** Thursday, May 08, 2008 7:06 PM  
**To:** Frisch, Mike; Montalvo, Marcel  
**Subject:** CES Environmental

Mike and Marcel,

Thank you for talking with me at the trade show seminar on recycling waste. We spoke about recycling a stream of ethyl lactate and methyl propyl ketone, I believe? If you have a chance, please send me any more information that you have on this stream (MSD sheets or analytical if available, if not a breakdown of the components).

I enjoyed meeting you both and hopefully we can find a way to manage this stream for you all in a better way. Thanks again,

**Joy Baker**  
CES Environmental Services, Inc  
4904 Griggs Rd  
Houston, TX 77021  
mobile: 281-701-8511  
fax: 713-676-1676  
[jbaker@cesenvironmental.com](mailto:jbaker@cesenvironmental.com)

# MATERIAL DATA SAFETY SHEET

## Spansion LLC – TEXAS OPERATIONS

### IDENTITY: Used Organic Solvent

#### SECTION I – COMPANY IDENTIFICATION

Manufacturer's Name: Spansion LLC  
Address: 5204 E. Ben White Blvd. MS 582  
Austin, TX 78741  
3E Emergency Telephone Number: (800) 451-8346  
Regulatory Information Number: (512) 934-5713  
Date Prepared: 2/2/06 Date Revised: 12/11/07

#### SECTION II – INGREDIENTS/IDENTITY INFORMATION

Component	CAS #	OSHA 8 hr time weighted average (TWA) in ppm	ACGIH Threshold Limit Value® (TLV®) in ppm	Concentration (wt%)
Ethyl Lactate	97-64-3	N/A	N/A	<55
Water	7732-18-5	N/A	N/A	<30
Methyl propyl ketone	107-87-9	200	200	<20
Acetone	67-64-1	1000	500	<5
n-Methylpyrrolidone	120-94-5	N/A	N/A	<5
Isopropanol	67-63-0	400	200	<5
Ethanol	64-17-5	1000	1000	<2
Methyl isobutyl ketone	108-10-1	100	50	<2
PGMEA	108-65-6	N/A	N/A	<2
n-Butyl Acetate	123-86-4	150	150	<2
2-2-Aminoethoxyethanol	929-06-6	N/A	N/A	<1
Ethanolamine	141-43-5	3	3	<1
Ethylene glycol	107-21-1	N/A	N/A	<1
Hydroxylamine	7803-49-8	N/A	N/A	<1
Anisole	100-66-3	N/A	N/A	<1
n-Octyl pyrrolidone	2687-94-7	N/A	N/A	<1
Propylene glycol	57-55-6	N/A	N/A	<1
2-ethyl-hexanol	104-76-7			<1
2-heptanone	110-43-0			<1
2-pentanol	6032-29-7			<1
Dimethoxydimethylsilane	1112-39-6			<1
Diethyleneglycol ethyl ether acetate	112-15-2			<1

#### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State: Liquid  
Specific Gravity: 0.90 – 0.97

pH: 4 - 10  
Solubility in Water: Miscible in water  
Appearance: Brown  
Odor: Sweet solvent

---

#### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 50 – 73 (estimate)  
Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.  
Special Fire Fighting Procedures: Should wear NIOSH-approved self-contained breathing apparatus with full-face piece and full protective clothing. Water may be used to keep fire-exposed containers cool until fire is out.  
Usual Fire and Explosion Hazards: Never use welding or cutting torch on container, even empty ones, because product can ignite explosively.  
NFPA Rating: Health = 2  
Flammability = 3  
Reactivity = 0

---

#### SECTION V – REACTIVITY DATA

Stability: Stable under normal conditions.  
Polymerization: Will not occur  
Conditions to Avoid: High temperatures  
Incompatibility (Materials to Avoid): Oxidizers; acids  
Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

---

#### SECTION VI – HEALTH HAZARD DATA

- **Inhalation:**  
Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.
- **Ingestion:**  
Can cause drowsiness, unconsciousness, and death. Gastrointestinal pain, cramps, nausea, vomiting, and diarrhea may also result.
- **Skin Contact:**  
May cause irritation with redness and pain. Prolonged contact may result in defatting of skin leading to irritation and dermatitis.
- **Eye Contact:**  
May cause irritation. Symptoms include stinging, tearing, redness, and

swelling of eyes.

## **EMERGENCY AND FIRST AID PROCEDURES**

- Inhalation: Remove immediately to fresh air and summon medical attention. Give artificial respiration if not breathing. Keep person warm and quiet. Get medical attention.
- Ingestion: Never give anything by mouth to an unconscious person. Get medical attention immediately on whether or not to induce vomiting.
- Eye Contact: Move individual away from exposure and into fresh air. Immediately flush eyes with running water for at least 15 minutes while holding eyelids apart. Summon medical attention.
- Skin Contact: Immediately flush affected areas with large quantities of water for at least 15 minutes while removing contaminated clothing and shoes. Summon immediate medical attention. Wash clothing before reuse.

## **CANCER INFORMATION**

This product does not contain any material listed as known or suspect human carcinogens.

## **NOTE TO PHYSICIAN**

Treatment of exposure should be directed at the control of symptoms and the clinical condition. Preexisting disorders of the skin and/or lungs may be aggravated by exposure to this material.

---

## **SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE**

- Spills and Leaks: Only trained personnel should clean up spills. Personnel should wear full protection. Untrained personnel and persons not wearing protective equipment should be excluded from spill area. Ventilate area of leak or spill. Remove all sources of ignition. Keep spill out of sewers, storm drains, surface waters and soil. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Comply with all applicable government regulations on spill reporting, handling and disposal of waste material.
- Waste Disposal Method: Dispose of in a method appropriate for hazardous waste solvent; typically incineration by a permitted facility.
- Storage and Handling: Store in a cool, dry, well-ventilated area out of direct sunlight. Use only un-damaged DOT-approved containers. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to

avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid). Avoid all contact with eyes and skin. Avoid inhalation of vapors or mists. Wear proper protective clothing. Wash thoroughly after handling.

Ventilation: All handling should be done in a well-ventilated area.

Special: Workers handling this material should be thoroughly trained in safety procedures.

---

## **SECTION VIII – CONTROL MEASURES**

Respiratory Protection: If workplace exposure limits are not adequately controlled, wear NIOSH-approved respiratory protection. Supplied air respirator. OSHA regulations also permit air-purifying respirator under certain conditions.

Ventilation: Recommended local exhaust at points where vapor can be released into work area. Provide good general ventilation

Protective Gloves: Neoprene, natural rubber or nitrile gloves

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash station and quick-drench facilities in work area.

Other Protective Clothing: Suitable protective clothing to prevent skin contact including apron, safety shoes, and long-sleeved shirt and trousers, as appropriate, to prevent skin contact. Neoprene, natural rubber or nitrile material is recommended.

Work/Hygienic Practices: Avoid skin contact. Wash hands, arms, and face after handling chemical materials.

---

## **SECTION IX – NOTICE**

The data contained herein is based on information that Spansion LLC believes to be reliable. No expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation.

---

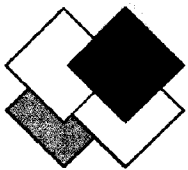
## **SECTION X – TRANSPORTATION**

DOT Shipping Name: Flammable Liquid, n.o.s. (ethyl lactate, methyl propyl ketone)

DOT Hazard Classification: 3

DOT Hazard Identification Number: UN1993

DOT Packing Group: II



# Ceriumlabs™

BRINGING THE ELEMENTS TOGETHER

2008



[www.ceriumlabs.com](http://www.ceriumlabs.com)

**2008-465**

## Organics and Moisture Analysis for Waste Solvent

Mike Frisch / Spansion

Arefa Vohra

2/13/08

*Cerium Labs, LLC  
5204 E. Ben White Blvd., MS 512  
Austin, TX 78741  
1.866.770.7752*

## 2008-465: ATD-GCMS: Organics & Moisture Analysis for Waste S

### Objective:

Identify and quantify organics found in a waste solvent sample from Tank #1. Perform moisture analysis for the same sample.

### Sample Description:

Sample	Tests Requested
Waste Solvent from Tank #1	Organics & Water Content

Notes: Ethyl lactate was the most abundant organic compound found, followed by 2-pentanone.

## 2008-465: ATD-GCMS: Organics & Moisture Analysis for Waste S

### Moisture Analysis:

Analytical Equipment Used: *Mettler DL31 Karl Fischer Titrator*

### Organics:

Analytical Equipment Used: *Perkin-Elmer ATD 400, Perkin-Elmer AutoSystem XL GC, Perkin-Elmer TurboMass MS, Supelco Equity 1 column (30m x 0.25mm x 1.0um film), Supelco Tenax TA glass tubes, Hamilton 10µL syringe #1701, Branson 3200 Ultrasonic bath.*

Software: TurboMass Version 4.1.1, NIST Mass Spectral Search Program Version 1.5a, NIST/EPA/NIH Mass Spectral Library

Programs: ATD = 10min @ 250C (desorb); GC = 4min @ 40C, 10C/min to 300C, hold 5min; MS = EI+, 30-530amu @ 0.45sec per scan.

Injection: A known amount of solvent was dissolved in methanol, and a microliter of diluted sample was injected into a tenax tube for GC analysis.

## 2008-465: ATD-GCMS: Organics & Moisture Analysis for Waste

### Specific Gravity

Sample	Specific Gravity (g/ml)
Waste Solvent	0.96612

### Water Content

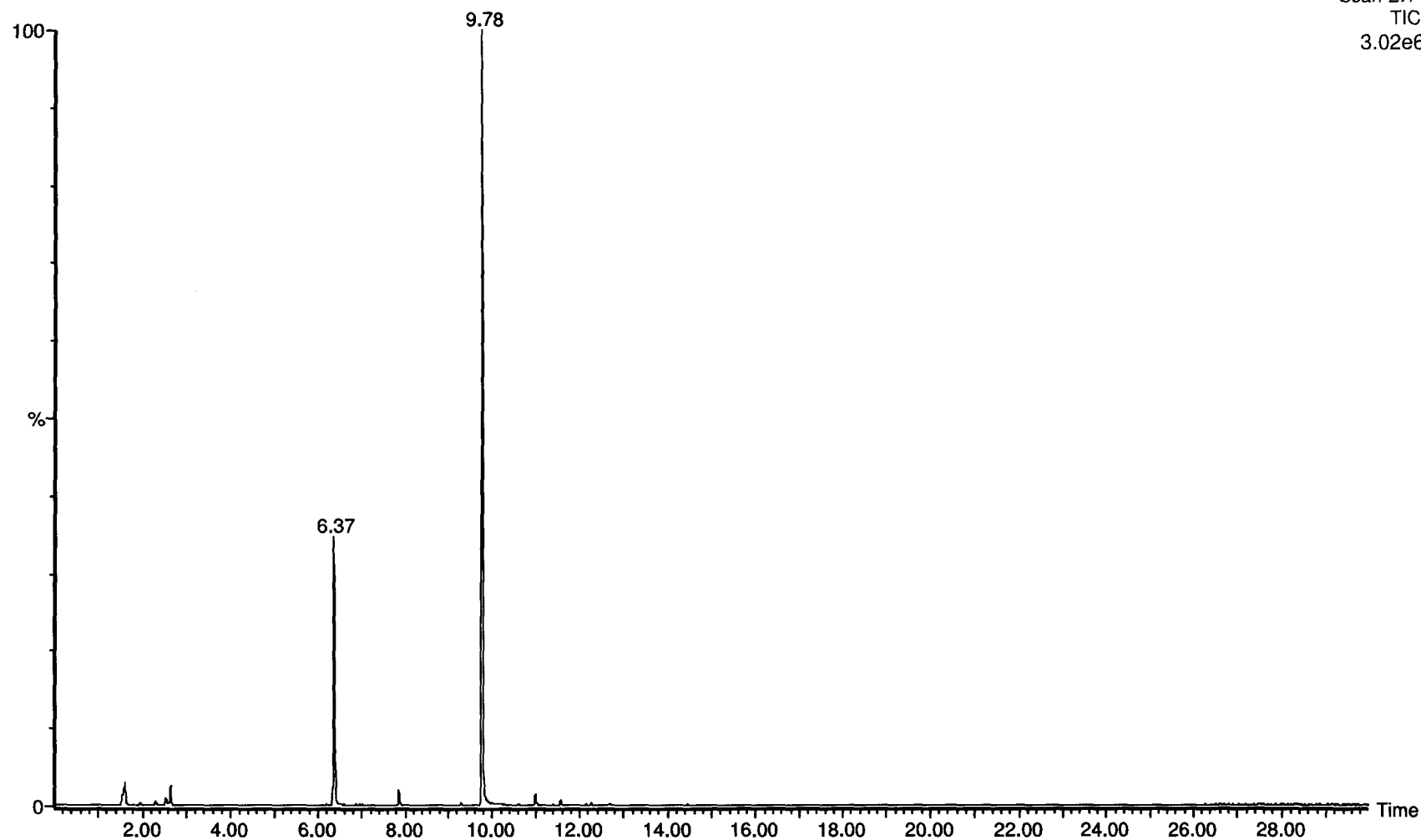
Sample	Water Content (% H <sub>2</sub> O)
Waste Solvent	7.85

# 2008-465: ATD-GCMS: Organics & Moisture Analysis for Waste

## Ion Chromatogram

Waste Solvent from Tank #1

Scan EI+  
TIC  
3.02e6



## 2008-465: ATD-GCMS: Organics & Moisture Analysis for Waste

### Organics Results

Compound	R.T.	Waste Solvent (ppm by wt)	Waste Solvent (wt %)
ethanol	2.30	1254.	0.13
acetone	2.53	2176.	0.22
2-propanol	2.64	10323.	1.03
2-pentanone	6.37	136699.	13.7
methyl isobutyl ketone (MIBK)	7.87	5085.	0.51
ethyl pyruvate	9.29	885.	0.09
ethyl lactate	9.78	567713.	56.8
methoxy triglycol acetate	11.00	3435.	0.34
2-heptanone	11.58	1755.	0.18
methoxybenzene	12.26	841.	0.08
trimethylurea	12.68	571.	0.06
Total (ppm by wt)		730737 ppm	73.07%
TC		570000 ppm	57.0%
TOC		570200 ppm	57.02%

All results are expressed in units of micrograms per liter ( $\mu\text{g/L}$ ) of sample.

RT = Retention time of each compound on the GC column in minutes.

"---" indicates that the compound is not present in the sample.

Note that concentration values are only estimates based upon a sensitivity factor determined by analyzing a known concentration of dodecane standard.



# Thank you.

The analyses contained in this presentation  
apply only to the samples analyzed.

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trademarks of Cerium Laboratories, LLC. Other product  
names used in this presentation are for identification  
purposes only and may be trademarks of their  
respective companies.

*[www.ceriumlabs.com](http://www.ceriumlabs.com)*

# SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper  
Spancion  
5204 East Ben White Blvd  
Austin, TX 78741

Air Waybill No. 863570480141

Page 1 of 1 Pages

Shipper's Reference Number  
(optional)

Consignee  
CES Env. Serv.  
4904 Griggs Rd  
Houston, TX 77021

**FedEx**

**Two completed and signed copies of this Declaration must be handed to the operator.**

## WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

### TRANSPORT DETAILS

This shipment is within the limitations prescribed for:  
(delete non-applicable)

Airport of Departure

PASSENGER  
AND CARGO  
AIRCRAFT

CARGO  
X AIRCRAFT X  
ONLY

AUS

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

XX RADIOACTIVE XX

## NATURE AND QUANTITY OF DANGEROUS GOODS

### Dangerous Goods Identification

UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack- ing Group	Quantity and type of packaging	Packing Inst.	Authorization
UN 1993	Flammable liquid NOS (Ethyl lactate, methyl propyl ketone)	3	II	One fibreboard Box X 1L	305	

### Additional Handling Information

I declare that all applicable air transport requirement have been met.

Emergency Telephone Number 1-800-451-8346

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory  
David Hill Chem Handler

Place and Date  
Spancion Austin 5/13/2008  
Signature  
(see warning above)

FOR RADIOACTIVE MATERIAL SHIPMENT ACCEPTABLE FOR PASSENGER AIRCRAFT, THE SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN OR INCIDENT TO RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

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PASSENGER  
AND CARGO  
AIRCRAFT

CARGO  
AIRCRAFT  
ONLY

AUS

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

~~RADIOACTIVE~~

## NATURE AND QUANTITY OF DANGEROUS GOODS

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UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack-ing Group			
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**SHIPPER'S DECLARATION FOR DANGEROUS GOODS**

Shipper

Spanson  
5204 East Ben White Blvd  
Austin, TX 78741

Air Waybill No. 863570480141

Page 1 of 1 Pages

Shipper's Reference Number  
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4904 Griggs Rd  
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(delete non-applicable)

Airport of Departure

PASSENGER  
AND CARGO  
AIRCRAFTCARGO  
AIRCRAFT  
ONLY XXX

AUS

Airport of Destination:

Shipment type: (delete non-applicable)

**NON-RADIOACTIVE**~~XXXXXXXXXX~~  
**RADIOACTIVE****NATURE AND QUANTITY OF DANGEROUS GOODS**

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# EXPENSES FOR \_\_\_\_\_ MONTH, YEAR

ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE

DAILY TOTALS

D A Y	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
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TOTAL COLUMNS A through D

Vehicle Expenses from Reverse Side

LESS %

TOTAL EXPENSES

## ADVANCES BY COMPANY

DATE CHECK/TICKET AMOUNT

## Total Expenses

Remarks

Less Charges to Company Accounts

Less Advances by Company

Due Me

Due Company

Submitted by

Date

Approved by

Date

Check #

EPAHO082001509

# VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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## RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS

Credit Card, Company, Supplier	Amount	Check No.	Personal	Business
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## NOTES AND MEMOS

# EXPENSES FOR

MONTH, YEAR

D A Y	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
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LESS %							TOTAL EXPENSES		

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses		Remarks
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by	Date	
Approved by	Date	Check #

FOLIO EXPENSE SUMMARY

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EPAHO082001511

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR \_\_\_\_\_

MONTH, YEAR

ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE								DAILY TOTALS	
D A Y	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
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Vehicle Expenses from Reverse Side

**TOTAL EXPENSES**

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

<b>Total Expenses</b>		<b>Remarks</b>
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by	Date	
Approved by	Date	Check #

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

## MONTH, YEAR

**TOTAL EXPENSES**

DATE	CHECK/TICKET	AMOUNT
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Check #

EPAHQ082001515

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR \_\_\_\_\_

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
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TOTAL COLUMNS A through D

LESS      %

Vehicle Expenses from Reverse Side

TOTAL EXPENSES

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses		Remarks
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by	Date	
Approved by	Date	Check #

EPAHO082001517

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
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ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses	Remarks
Less Charges to Company Accounts	
Less Advances by Company	
Due Me	
Due Company	
Submitted by	Date
Approved by	Date
	Check #

EPAHO082001519

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Included	B Lunch Included	C Dinner Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	H Charged To Company's Account	I Paid Out Or Charged To Personal Account
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LESS %								TOTAL EXPENSES	

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses		Remarks
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by		Date
Approved by		Date      Check #

# VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
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TOTAL COLUMNS A through D

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Vehicle Expenses from Reverse Side

TOTAL EXPENSES

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses		Remarks
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by	Date	
Approved by	Date	
	Check #	

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR \_\_\_\_\_

MONTH, YEAR

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Vehicle Expenses from Reverse Side

TOTAL EXPENSES

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses	Remarks
Less Charges to Company Accounts	
Less Advances by Company	
Due Me	
Due Company	
Submitted by	Date
Approved by	Date      Check #

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
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RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR \_\_\_\_\_

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
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22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
SUB TOTAL									
TOTAL COLUMNS A through D							Vehicle Expenses from Reverse Side		
LESS %							TOTAL EXPENSES		

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses		Remarks
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by	Date	
Approved by	Date	Check #

# VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
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18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
TOTALS ►										

RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR \_\_\_\_\_

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY--THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
1									
2									
3									
4									
5									
6									
7									
8									
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21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
SUB TOTAL									

TOTAL COLUMNS A through D

LESS      %

Vehicle Expenses from Reverse Side

TOTAL EXPENSES

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses	Remarks
Less Charges to Company Accounts	
Less Advances by Company	
Due Me	
Due Company	
Submitted by	Date
Approved by	Date      Check #

EPAHO082001529

# VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
<b>TOTALS ►</b>										

RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# EXPENSES FOR \_\_\_\_\_

MONTH, YEAR

DAY	ENCIRCLE BELOW ITEMS CHARGED DIRECTLY TO COMPANY—THEN SUMMARIZE HERE							DAILY TOTALS	
	A Breakfast Tip Included	B Lunch Tip Included	C Dinner Tip Included	D Entertainment	E Travel Air, Rail, Boat, Taxi	F Lodging	G Miscellaneous Expense	Charged To Company's Account	Paid Out Or Charged To Personal Account
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
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19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
SUB TOTAL									

TOTAL COLUMNS A through D

LESS      %

Vehicle Expenses from Reverse Side

TOTAL EXPENSES

ADVANCES BY COMPANY		
DATE	CHECK/TICKET	AMOUNT

Total Expenses		Remarks
Less Charges to Company Accounts		
Less Advances by Company		
Due Me		
Due Company		
Submitted by	Date	
Approved by	Date	Check #

EPAHO082001531

## VEHICLE DISTANCE AND EXPENSE RECORD

D A Y	Cities Visited	People, Companies Called On	Odometer Start	Odometer Stop	Business Distance	Personal Distance	Tolls, Parking	Gas, Oil, Lube, Washing	Vehicle Repairs	Misc.
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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21										
22										
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24										
25										
26										
27										
28										
29										
30										
31										
<b>TOTALS ►</b>										

RECORD OF MONTHLY CREDIT CARD CHARGES AND OTHER PAYMENTS				
Credit Card, Company, Supplier	Amount	Check No.	Personal	Business

NOTES AND MEMOS

# 2009

EPAHQ082001533

2009

## PLANNING CALENDAR

2009

DATE	JANUARY - DATE EACH ITEM

DATE	FEBRUARY - DATE EACH ITEM

DATE	MARCH - DATE EACH ITEM

DATE	APRIL - DATE EACH ITEM

DATE	MAY - DATE EACH ITEM

DATE	JUNE - DATE EACH ITEM

DATE	JULY - DATE EACH ITEM

DATE	AUGUST - DATE EACH ITEM

DATE	SEPTEMBER - DATE EACH ITEM

DATE	OCTOBER - DATE EACH ITEM

DATE	NOVEMBER - DATE EACH ITEM

DATE	DECEMBER - DATE EACH ITEM

EPAHO082001534

## PLANNING CALENDARS

Calendar for 2010																																													
JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
				1	2		1	2	3	4	5	6		1	2	3	4	5	6					1	2	3							1		1	2	3	4	5						
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8		6	7	8	9	10	11	12			
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15		13	14	15	16	17	18	19			
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22		20	21	22	23	24	25	26			
24	25	26	27	28	29	30	28							28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29		27	28	29	30						
31																											30	31																	
JULY							AUGUST							SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
				1	2	3	1	2	3	4	5	6	7			1	2	3	4					1	2			1	2	3	4	5	6					1	2	3	4				
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13		5	6	7	8	9	10	11			
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20		12	13	14	15	16	17	18			
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27		19	20	21	22	23	24	25			
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31					
																					31																								

Calendar for 2011																																																			
JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S										
					1				1	2	3	4	5				1	2	3	4	5					1	2		1	2	3	4	5	6	7				1	2	3	4									
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12							3	4	5	6	7	8	9		8	9	10	11	12	13	14	5	6	7	8	9	10	11			
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19							10	11	12	13	14	15	16		15	16	17	18	19	20	21		12	13	14	15	16	17	18		
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26							17	18	19	20	21	22	23		22	23	24	25	26	27	28		19	20	21	22	23	24	25		
23	24	25	26	27	28	29	27	28						27	28	29	30	31								24	25	26	27	28	29	30		29	30	31							26	27	28	29	30				
30	31																																																		
JULY							AUGUST							SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
					1	2			1	2	3	4	5	6						1	2	3						1					1	2	3	4	5							1	2	3					
3	4	5	6	7	8	9	7	8	9	10	11	12	13		4	5	6	7	8	9	10						2	3	4	5	6	7	8		6	7	8	9	10	11	12		4	5	6	7	8	9	10		
10	11	12	13	14	15	16	14	15	16	17	18	19	20		11	12	13	14	15	16	17						9	10	11	12	13	14	15		13	14	15	16	17	18	19		11	12	13	14	15	16	17		
17	18	19	20	21	22	23	21	22	23	24	25	26	27		18	19	20	21	22	23	24						16	17	18	19	20	21	22		20	21	22	23	24	25	26		18	19	20	21	22	23	24		
24	25	26	27	28	29	30	28	29	30	31					25	26	27	28	29	30						23	24	25	26	27	28	29		27	28	29	30						25	26	27	28	29	30	31		
31																											30	31																							

Calendar for 2012																																												
JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
1	2	3	4	5	6	7				1	2	3	4						1	2	3	1	2	3	4	5	6	7															1	2
8	9	10	11	12	13	14	5	6	7	8	9	10	11	4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9			
15	16	17	18	19	20	21	12	13	14	15	16	17	18	11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16			
22	23	24	25	26	27	28	19	20	21	22	23	24	25	18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23			
29	30	31					26	27	28	29				25	26	27	28	29	30	31	29	30						27	28	29	30	31												
JULY							AUGUST							SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
1	2	3	4	5	6	7				1	2	3	4						1	1	2	3	4	5	6																			1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8			
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15			
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22			
29	30	31					26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	30	31		

# PLANNING CALENDARS

## Calendar for 2013

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2	1 2	1 2 3 4 5 6	1 2 3 4	1
6 7 8 9 10 11 12	3 4 5 6 7 8 9	3 4 5 6 7 8 9	7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8
13 14 15 16 17 18 19	10 11 12 13 14 15 16	10 11 12 13 14 15 16	14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
20 21 22 23 24 25 26	17 18 19 20 21 22 23	17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
27 28 29 30 31	24 25 26 27 28	24 25 26 27 28 29 30 31	28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29 30
JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6	1 2 3	1 2 3 4 5 6 7	1 2 3 4 5	1 2	1 2 3 4 5 6 7
7 8 9 10 11 12 13	4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12	3 4 5 6 7 8 9	8 9 10 11 12 13 14
14 15 16 17 18 19 20	11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19	10 11 12 13 14 15 16	15 16 17 18 19 20 21
21 22 23 24 25 26 27	18 19 20 21 22 23 24	22 23 24 25 26 27 28	20 21 22 23 24 25 26	17 18 19 20 21 22 23	22 23 24 25 26 27 28
28 29 30 31	25 26 27 28 29 30 31	29 30	27 28 29 30 31	24 25 26 27 28 29 30	29 30 31

## Calendar for 2014

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4	1	1	1 2 3 4 5	1 2 3	1 2 3 4 5 6 7
5 6 7 8 9 10 11	2 3 4 5 6 7 8	2 3 4 5 6 7 8	6 7 8 9 10 11 12	4 5 6 7 8 9 10	8 9 10 11 12 13 14
12 13 14 15 16 17 18	9 10 11 12 13 14 15	9 10 11 12 13 14 15	13 14 15 16 17 18 19	11 12 13 14 15 16 17	15 16 17 18 19 20 21
19 20 21 22 23 24 25	16 17 18 19 20 21 22	16 17 18 19 20 21 22	20 21 22 23 24 25 26	18 19 20 21 22 23 24	22 23 24 25 26 27 28
26 27 28 29 30 31	23 24 25 26 27 28	23 24 25 26 27 28 29 30 31	27 28 29 30	25 26 27 28 29 30 31	29 30
JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5	1 2	1 2 3 4 5 6	1 2 3 4	1	1 2 3 4 5 6
6 7 8 9 10 11 12	3 4 5 6 7 8 9	7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8	7 8 9 10 11 12 13
13 14 15 16 17 18 19	10 11 12 13 14 15 16	14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15	14 15 16 17 18 19 20
20 21 22 23 24 25 26	17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22	21 22 23 24 25 26 27
27 28 29 30 31	24 25 26 27 28 29 30 31	28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29 30	28 29 30 31

## Calendar for 2015

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4	1 2	1 2 3 4 5 6
4 5 6 7 8 9 10	8 9 10 11 12 13 14	8 9 10 11 12 13 14	5 6 7 8 9 10 11	3 4 5 6 7 8 9	7 8 9 10 11 12 13
11 12 13 14 15 16 17	15 16 17 18 19 20 21	15 16 17 18 19 20 21	12 13 14 15 16 17 18	10 11 12 13 14 15 16	14 15 16 17 18 19 20
18 19 20 21 22 23 24	22 23 24 25 26 27 28	22 23 24 25 26 27 28	19 20 21 22 23 24 25	17 18 19 20 21 22 23	21 22 23 24 25 26 27
25 26 27 28 29 30 31		29 30 31	26 27 28 29 30	24 25 26 27 28 29 30 31	28 29 30
JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4	1	1 2 3 4 5	1 2 3	1 2 3 4 5 6 7	1 2 3 4 5
5 6 7 8 9 10 11	2 3 4 5 6 7 8	6 7 8 9 10 11 12	4 5 6 7 8 9 10	8 9 10 11 12 13 14	6 7 8 9 10 11 12
12 13 14 15 16 17 18	9 10 11 12 13 14 15	13 14 15 16 17 18 19	11 12 13 14 15 16 17	15 16 17 18 19 20 21	13 14 15 16 17 18 19
19 20 21 22 23 24 25	16 17 18 19 20 21 22	20 21 22 23 24 25 26	18 19 20 21 22 23 24	22 23 24 25 26 27 28	20 21 22 23 24 25 26
26 27 28 29 30 31	23 24 25 26 27 28 29 30 31	27 28 29 30	25 26 27 28 29 30 31	29 30	27 28 29 30 31

# CALENDAR FOR 2009

JANUARY							JULY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3				1	2	3	4
4	5	6	7	8	9	10	5	6	7	8	9	10	11
11	12	13	14	15	16	17	12	13	14	15	16	17	18
18	19	20	21	22	23	24	19	20	21	22	23	24	25
25	26	27	28	29	30	31	26	27	28	29	30	31	
FEBRUARY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7							1
8	9	10	11	12	13	14	2	3	4	5	6	7	8
15	16	17	18	19	20	21	9	10	11	12	13	14	15
22	23	24	25	26	27	28	16	17	18	19	20	21	22
							23	24	25	26	27	28	29
							30	31					
MARCH							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7			1	2	3	4	5
8	9	10	11	12	13	14	6	7	8	9	10	11	12
15	16	17	18	19	20	21	13	14	15	16	17	18	19
22	23	24	25	26	27	28	20	21	22	23	24	25	26
29	30	31					27	28	29	30			
APRIL							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4					1	2	3
5	6	7	8	9	10	11	4	5	6	7	8	9	10
12	13	14	15	16	17	18	11	12	13	14	15	16	17
19	20	21	22	23	24	25	18	19	20	21	22	23	24
26	27	28	29	30			25	26	27	28	29	30	31
MAY							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	1	2	3	4	5	6	7
3	4	5	6	7	8	9	8	9	10	11	12	13	14
10	11	12	13	14	15	16	15	16	17	18	19	20	21
17	18	19	20	21	22	23	22	23	24	25	26	27	28
24	25	26	27	28	29	30	29	30					
31													
JUNE							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6			1	2	3	4	5
7	8	9	10	11	12	13	6	7	8	9	10	11	12
14	15	16	17	18	19	20	13	14	15	16	17	18	19
21	22	23	24	25	26	27	20	21	22	23	24	25	26
28	29	30					27	28	29	30	31		

# HOLIDAYS OBSERVED AROUND THE WORLD

# 2009

		Australia (Aust)	Belgium (Belg)	Canada (Can)	France (Fr)	Germany (Ger)	Great Britain (GB)	Italy (It)	Japan (Jpn)	Mexico (Mex)	Netherlands (Neth)	New Zealand (NZ)	Spain (Sp)	Switzerland (Switz)	United States (US)
New Year's Day	Jan 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Bank Holiday	Jan 2					•									
Epiphany	Jan 6				•		•					•			
Martin Luther King Jr. Day	Jan 19														•
Australia Day	Jan 26	•													
Constitution Day	Feb 5								•						
Waitangi Day	Feb 6										•				
National Foundation Day	Feb 11							•							
Lincoln's Birthday	Feb 12														•
Valentine's Day	Feb 14		•												•
President's Day	Feb 16														•
Washington's Birthday	Feb 22														•
Ash Wednesday	Feb 25														•
St. Patrick's Day	Mar 17					•									•
St. Joseph's Day	Mar 19						•					•			
Juarez' Birthday	Mar 21								•						
Daylight Saving Time Begins	Apr 5			•											•
Palm Sunday	Apr 5	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Maundy Thursday	Apr 9											•			
Passover *	Apr 9														•
Good Friday	Apr 10	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Easter	Apr 12	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Easter Monday	Apr 13	•	•	•	•	•	•	•		•					
Administrative Professionals Day	Apr 22			•											•
Liberation Day	Apr 25						•								
ANZAC Day	Apr 27	•									•				
Greenery Day	Apr 29							•							
Queen's Birthday	Apr 30									•					
May Day	May 1			•											
Labour Day	May 1		•		•	•	•		•			•	•		
Constitution Day	May 4							•							
Early Bank Holiday	May 4					•									
May Day	May 4					•									
Children's Day	May 5							•							
National Day of Prayer	May 7														•
Mother's Day	May 10			•											•
Victoria Day	May 18			•											
Ascension Day	May 21		•		•	•				•			•		
Memorial Day	May 25														•
Spring Bank Holiday	May 25					•									
Shavuot *	May 29														•
Whitsunday (Pentecost)	May 31		•	•	•	•	•	•	•	•	•	•	•	•	•
Whitmonday	Jun 1		•	•	•	•			•	•		•			
Bank Holiday	Jun 1					•									
Republic Day	Jun 2						•								
Trinity Sunday	Jun 7														
Corpus Christi Day	Jun 11				•		•					•			
Flag Day	Jun 14														•
Father's Day	Jun 21			•											•
St. John Baptist	Jun 24			•											
Sts. Peter & Paul Day	Jun 29						•					•			
Canada Day	Jul 1			•											
Independence Day	Jul 4													•	

## Metric Equivalents

### LINEAR MEASURE

1 centimeter .....	0.3937 inch
1 inch.....	2.54 centimeters
1 decimeter.....	3.937 in. ...0.328 foot
1 foot.....	3.048 decimeters
1 meter.....	39.37 in. ...1.0936 yds.
1 yard.....	0.9144 meter
1 dekameter.....	1.9884 rods
1 rod.....	0.5029 dekameter
1 kilometer.....	0.62137 mile
1 mile.....	1.6094 kilometers

### SQUARE MEASURE

1 sq. centimeter .....	0.1550 sq. inch
1 sq. inch.....	6.452 sq. centimeters
1 sq. decimeter.....	0.1076 sq. foot
1 sq. foot.....	9.2903 sq. decimeters
1 sq. meter.....	1.196 sq. yards
1 sq. yard.....	0.8361 sq. meter
1 hectare .....	2.471 acres
1 acre.....	0.4047 hectare
1 sq. kilometer.....	0.386 sq. mile
1 sq. mile.....	2.59 sq. kilometers

### TEMPERATURE CONVERSION

Celsius	
-18	-10
0	10
20	30
40	
Fahrenheit	
0°	10
20	32
40	50
60	70
80	90
100	110
C=5/9(F-32)	
F=9/5C+32	

### MEASURE OF VOLUME

1 cu. centimeter .....	0.061 cu. inch
1 cu. inch.....	16.39 cu. centimeters
1 cu. decimeter.....	0.0353 cu. foot
1 cu. foot.....	28.317 cu. decimeters
1 cu. yard.....	0.7646 cu. meter
1 cu. meter.....	0.2759 cord
1 cord.....	3.625 steres
1 liter.....	0.908 qt. dry ..1.0567 qts. liq.
1 quart dry.....	1.101 liters
1 quart liquid.....	0.9463 liter
1 dekaliter.....	2.6417 gals. ...1.135 pks.
1 gallon.....	0.3785 dekaliter
1 peck.....	0.881 dekaliter
1 hektoliter.....	2.8378 bushels
1 bushel.....	0.3524 hektoliter

### WEIGHTS

1 gram.....	0.03527 ounce
1 ounce.....	28.35 grams
1 kilogram.....	2.2046 pounds
1 pound.....	0.4536 kilogram
1 short ton (U.S.).....	2000 pounds
	or 0.907 metric ton
1 long ton (English).....	2240 pounds
	or 1.016 metric tons
1 metric ton.....	2204.6 pounds
	or 1.102 short tons (U.S.)
	or 0.98421 long ton (English)

## U.S. Measures

### LIQUID MEASURE

4 gills.....	1 pint
2 pints.....	1 quart
4 quarts.....	1 gallon
31½ gallons.....	1 barrel

### LONG MEASURE

12 inches.....	1 foot
3 feet.....	1 yard
5½ yards.....	1 rod
40 rods.....	1 furlong
8 furlongs.....	1 statute mile
3 nautical miles.....	1 league

### CUBIC MEASURE

1,728 cu. in. ....	1 cu. ft.
27 cu. ft. ....	1 cu. yd.
128 cu. ft. ....	1 cord (wood)
40 cu. ft. ....	1 ton (shipping)
2,150.42 cu. in. ....	1 standard bu.
231 cu. in. ....	1 U.S. standard gal.
1 cu. ft. ....	about ⅔ of a bushel

### DRY MEASURE

2 pints.....	1 quart
8 quarts.....	1 peck
4 pecks.....	1 bushel
36 bushels.....	1 chaldron

## Useful Conversions

To find the diameter of a circle multiply the circumference by .31831.

To find the circumference of a circle multiply the diameter by 3.1416.

## BIRTHDAYS & ANNIVERSARIES

DATE	JANUARY - DATE EACH ITEM

DATE	JULY - DATE EACH ITEM

DATE	FEBRUARY - DATE EACH ITEM

DATE	AUGUST - DATE EACH ITEM

DATE	MARCH - DATE EACH ITEM

DATE	SEPTEMBER - DATE EACH ITEM

DATE	APRIL - DATE EACH ITEM

DATE	OCTOBER - DATE EACH ITEM

DATE	MAY - DATE EACH ITEM

DATE	NOVEMBER - DATE EACH ITEM

DATE	JUNE - DATE EACH ITEM

DATE	DECEMBER - DATE EACH ITEM



Safety-Kleen Systems, Inc.  
Proposal Development Group  
5360 Legacy Drive  
Building 2, Suite 100  
Plano, TX 75024

March 16, 2009

Ms. Joy Baker  
CES  
4904 Griggs Rd.  
Houston, TX 77021

Re: Metton America

Dear Ms. Baker:

Thank you for considering Safety-Kleen Systems, Inc. (Safety-Kleen) for your waste management needs. I am pleased to provide you with pricing for the attached waste streams. This quotation is based upon the information you have provided.

Safety-Kleen offers a vast spectrum of products and services to manage all your waste processing requirements, the ability to process your waste at or through a Safety-Kleen owned and operated facility, and offers customized solutions that reduce daily involvement in waste management, minimize risks, and contain costs.

To initiate service, please contact Safety-Kleen's Denton Recycle Center. They can be reached at 940-483-5200. If you have any questions or need additional assistance, feel free to contact me at 214-505-2011.

Sincerely,

*Call: Carol Miller, CSR  
940-483-5200*

*Ken Chauncey will start next week*

Mike Reeves  
Recycle Center Sales Specialist

*going to Clean Harbours in OK*

*Ken ~~Don~~ Chauncey taking his place*



**PRICING QUOTATION FOR CES FOR METTON AMERICA****Pricing is effective for one trial load for processing evaluation.**

Waste Description	Profile #	Safety-Kleen Job #	Parameters	Container	Safety-Kleen Disposal Pricing
Waste Dicyclopentadiene	Required	875026	FBLQ Organic Liquids >9,000 BTUs <3% halogens <10% solids <10% water.	Tanker	\$0.55 per gallon

**Note:** Pricing provided above is based on information provided by the generator. All waste streams must be reviewed and approved by Safety-Kleen in order to confirm the pricing. Safety-Kleen reserves the right to up charge on receipt of non-conforming material including but not limited to costs associated with managing residues, rejected or re-manifested loads and all related equipment cleaning.

drums \$59 /drum

**Transportation Fees**

Tanker Transportation to Denton, TX	Provided and paid for by broker
Tanker washout fee (if required)	\$275.00
Demurrage 2 Free Hours	\$75.00/hr. Billed in ¼ hour increments.

**Cancellation Fees:** For loads that are cancelled within one business day all cancellation fees will be invoiced.

**Special Requirements:** Bulk transport and rail cars are subject to a rejection and/or clean out fee for all heels greater than .3% of the total vessel size. This fee may include disposal, transportation, and various handling fees. See additional transportation notes detailed in the General Conditions below.

**Waste Fees**

Texas Waste Fees (Hazardous)	\$0.003 per lb.
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**General Conditions**

1. Acceptance of this quotation falls under Safety-Kleen's standard terms and conditions or current contract in place.
2. A fuel surcharge will apply to this shipment, it will be billed as a separate line item. Fuel surcharges will be adjusted once per month on the first Monday of the month of the ship date. This price will be based on EIA retail On-Highway National Average Diesel Fuel Price (found at <http://www.eia.doe.gov>) for the last Monday of the prior Month.
3. Transportation rates include standard equipment and services. Additional charges may be incurred for cancellations, cleaning/washing, detention, expedited shipments, heel removal, extra hose lengths, rejected loads, equipment spotting, load storage, and other accessorial needs. Safety-Kleen reserves the right to invoice for any accessorial charges on separate invoices.

**PRICING QUOTATION FOR CES FOR METTON AMERICA**

- |  |   |
|--|---|
| <p>1) Price is valid for sixty (60) days from the date of this quotation letter.</p> <p>2) Customer agrees to pay the prices for the Services and agrees that payments hereunder are due upon Customer's receipt of an invoice. Amounts due on invoices that are not paid within 30 days are subject to an interest charge equal to the lesser of 1.5% per month (18% per annum) or the maximum rate allowed by law.</p> <p>3) All drummed waste materials are packaged in drums that meet current DOT/UN specifications and are in good condition suitable for transportation by highway. Repackaging or over packing of drums will result in additional costs for labor and Materials, payment for which is the responsibility of the Customer.</p> <p>4) Safety-Kleen's employees or agents may refuse to package and ship any materials that are determined to contain pathological agents, biological wastes, PCB's, dioxins, radioactive wastes, explosives or that possess other hazards that make the waste unsafe for handling or shipping.</p> <p>5) If Customer has a valid and current Universal Services Agreement or Master Services Agreement on file with Safety-Kleen, the terms and conditions of said Agreement shall control in the event there is any conflict with the terms and conditions of this price quotation.</p> <p>6) Customer will submit a separate description ("Material Profile") for each waste material tendered or delivered by Customer to Safety-Kleen ("Waste"). Customer, upon request by Safety-Kleen, will submit with the Material Profile a sample of the Waste described in the Material Profile. Customer acknowledges and agrees that Safety-Kleen bases its testing, evaluation, collection, handling, and processing procedures on the description of the Waste contained in the Material Profile. If Customer is responsible for packaging and marking the Waste, the Waste will be described, coded, packaged and labeled in accordance with all laws, rules, regulations or ordinances applicable to Services ("Applicable Laws"), will conform to the Material Profile provided to Safety-Kleen and will be produced as described in the Material Profile. Customer agrees not to mix the Waste with any other materials (including, without limitation, materials containing PCBs) or otherwise alter the characteristics of the Waste. Customer will inform Safety-Kleen of any process changes that may alter the characteristics of the Waste.</p> <p>7) Provided the Waste is as described in the applicable Material Profile and the Waste is properly packaged, coded, marked and labeled, title, risk of loss and all other incidents of ownership with respect to the Waste will be transferred from Customer to Safety-Kleen at either (i) the time Safety-Kleen takes possession of, signs for, and removes the Waste from Customer's location or (ii) the time Customer's Waste is delivered to Safety-Kleen. Any marketable or usable material Safety-Kleen may recover from the Waste shall be the sole property of Safety-Kleen.</p> <p>8) Waste will be considered nonconforming waste ("Nonconforming Waste") if it fails to conform to the applicable Material Profile or if any packaging and/or marking provided by Customer is not in accordance with Applicable Laws and requirements provided in advance to Customer by Safety-Kleen. In the event Waste is determined to be Nonconforming Waste, Safety-Kleen may reject or revoke its acceptance of the Waste. The rejection or revocation of acceptance shall be effective immediately upon receipt of notice, verbal or written, by Customer or its agent. Customer and Safety-Kleen will have 7 days to seek an alternative manner of disposition of the Nonconforming Waste, unless it is necessary by reason of law, facility permit or facility operating procedure to move the Nonconforming Waste in less than 7 days. If Customer and Safety-Kleen cannot agree on an alternative manner of disposition within the relevant period, Safety-Kleen shall either return the Nonconforming Waste to Customer or unilaterally determine and arrange for an alternative, lawful manner of disposition. Customer shall pay Safety-Kleen its reasonable expenses and charges for Services provided in relation to such Nonconforming Waste, including analytical work, transportation, storage, repair, replacement, decontamination and cleaning of applicable equipment and Nonconforming Waste charges.</p> | <p>9) Safety-Kleen agrees to indemnify, hold harmless and defend Customer, its directors, officers, employees and agents from and against any and all liabilities, claims, penalties, forfeitures, suits, and the reasonable costs and expenses incident thereto (including costs of defense, settlement and reasonable lawyers' fees, consultant or other professional fees and the reasonable costs of investigation, containment and cleanup and any remedial actions required by law, regulation or order, including the Comprehensive Environmental Response, Compensation and Liability Act of 1980 or comparable state superfund law (collectively referred to as "Damages"), which Customer may hereafter incur, become responsible for, or pay out as a result of death or bodily injury to any person, destruction or damage to any property, contamination of or adverse effects on the environment, or any violation of Applicable Laws, to the extent that such Damages were caused by: (i) Safety-Kleen's breach of any term or provision of this Agreement; (ii) the failure of any representation or warranty of Safety-Kleen to be true, accurate and complete; or (iii) any negligent act or omission or willful misconduct of Safety-Kleen or its employees or agents.</p> <p>10) Customer agrees to indemnify, hold harmless and defend Safety-Kleen, its directors, officers, employees and agents from and against any and all Damages, which it may hereafter incur, become responsible for, or pay out as a result of death or bodily injury to any person, destruction or damage to any property, contamination of or adverse effects on the environment, or any violation of Laws, to the extent that such Damages were caused by: (i) Customer's breach of any term or provision of this Agreement; (ii) the failure of any representation or warranty of Customer to be true, accurate and complete; or (iii) any negligent act or omission or willful misconduct of Customer or its employees or agents.</p> <p>11) In no event shall either party be liable for any special, indirect, incidental, punitive or consequential damages, whether based in contract, warranty, indemnity or tort, negligence or strict liability.</p> <p>12) Except as provided to Safety-Kleen, Customer holds clear title to all Waste to be transferred hereunder and it is under no legal restraint or order which would prohibit transfer of possession or title to such Waste to Safety-Kleen.</p> <p>13) No delay or failure in performance by either party hereto, except for the payment for Services previously performed, shall constitute default hereunder or give rise to any claim for damages, if, and to the extent, such delay or failure is caused by an occurrence beyond the reasonable control and without the fault or negligence of the party affected and which said party is unable to prevent or provide against by exercise of reasonable diligence, including, but not limited to, acts of God or the public enemy, unavoidable casualties, fires or other catastrophes, strikes or any other considered acts of employees.</p> <p>14) Materials quoted on a weight basis may be subject to minimum weight charges.</p> <p>15) Safety-Kleen has the right to refuse any hazardous drum that exceeds its legal DOT rating, any non-hazardous drum exceeding 950 pounds, or any pallet exceeding 2,400 pounds.</p> <p>16) Except as specified in Section 5 above, the terms and conditions herein supersede and replace any previous or existing agreement, quotation for services, scope of work, purchase order or understanding, written or oral, between the parties.</p> <p><b>By execution below, Customer accepts the prices quoted herein and the parties understand and agree to be bound by the provisions of this Quotation for Services and the terms and conditions set forth herein unless the Customer has a valid and current Universal Services Agreement or Master Services Agreement on file with Safety-Kleen. Any changes in the Scope of Work or this Quotation for Services must be in writing and signed by Safety-Kleen and Customer.</b></p> |
|--|---|

CUSTOMER

(Name / Title)

(Authorized Signature)

Date



## Quotation for Disposal

Dana Carter  
CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, TX 77021

RE: Metton America (CES), 2727 Miller Cut-Off Road, LaPorte, TX 77571

Thank you for considering Rineco Chemical as your waste management company. Based on the information provided, Rineco is pleased to offer the following quotation for your approval. The disposal price is based on 55-gallon steel drums unless otherwise noted. Prices subject to change with 30 day notice.

Profile #	Material Name	Pricing
0902-03721	H-DCP	S1/S2 \$0.45/lb \$100.00 min/dm
		F1 (Low BTU): \$0.60/lb \$100.00 min/dm
		<b>BULK:</b>
		L1 \$0.35/gal

**For acceptance of H-DCP #0902-03721:** Material must arrive in a heated tanker of 120°F.  
Drums must arrive in open top containers.

*If material is non-conforming, does not blend with fuel stock or causes production or processing problems, additional charges may be incurred.*

**Transportation Cancellation Policy:** Rineco requires 24 hour notice prior to the scheduled pick-up date/time to make any changes. Failure to notify Rineco within this time period may result in "Equipment Order Not Used" charges of Cost + 10%.

The above transportation rate, effective immediately, replaces any and all transportation quotes dated prior to 3/12/2009.

*\*Until the national fuel crisis subsides, Rineco has implemented a fuel surcharge based on the National Average Diesel price as published by the U.S. Department of Energy. For your reference, the matrix for the applicable fuel surcharge percentage is attached. Please note, the prices above do not reflect this surcharge.*

At no extra charge, RINECO will prepare manifest and labels, which will be shipped overnight. We appreciate the opportunity to service your waste disposal needs. If you have any questions, please call 800-377-4692.

Michael Jaskowiak  
Territory Manager  
South Texas Territory

Generator Signature: \_\_\_\_\_  
Metton America (CES)

Date of Acceptance: \_\_\_\_\_



an American Ecology company

☐ US Ecology Nevada (Beatty)  
Fax (775) 353-2125  
☐ US Ecology Idaho (Grand View)  
Fax (208) 834-2919

☒ US Ecology Texas (Robstown)  
Fax (361) 387-0794

Profile #:

## A. CUSTOMER INFORMATION

\*Waste as shipped will be: ☒ Industrial ☐ NON - Industrial \*(Texas customers only)

Generator: Metton America, Inc

Facility Address: 2727 Miller Cut-off Rd  
(No PO Box) La Porte, TX 77571

Mailing Address: 2727 Miller Cut-off Rd

City/State/Zip: La Porte, TX 77571

Technical Contact: Joy Baker

Phone: 281-701-8511

Fax: 713-748-8664

☐ Check if Billing is Same

Billing Company: CES Environmental Services, Inc.

Billing Address: 4904 Griggs

City/State/Zip: Houston, TX 77021

Billing Contact: Juanita Thomas

Phone No.: 713-676-1460

Fax No.: 713-676-1676

Email: jthomas@cesenvironmental.com

NAICS# 325211

☐ CESQG☐ SQG☒ LQG

EPA ID:

TXD00726026

State ID#

32049

## B. SHIPPING INFORMATION

1. US DOT Shipping Name: Waste Flammable solids, organic n.o.s. (Dicyclopentadiene contaminated filters, absorbent, dirt, debris) 2. Hazard Class: 4.1

3. UN/NA #: 1325

4. Packaging Group: II

5. RQ:

100

6. Container Type: ☐ Bulk ☐ Totes ☐ Pallet

Size: 55 gal

7. Frequency:

☐ Year☒ QTR☐ Month☐ Boxes☐ Bags☒ Drums☐ Other

Quantity:

varies

☒ 1 Time☒ Other

## C. GENERAL MATERIAL &amp; REGULATORY INFORMATION

1. Common name for this waste: DCPD solids

2. Process generating the material: Debris contaminated with Component A and B from Reaction injection molding process.

(include additional sheets as necessary)

3. Describe Physical Appearance of Waste: Solids

4. Describe odor of waste: ☐ None ☒ Slight ☐ Strong Describe: unpleasant odor5. Knowledge is from: ☐ Lab Analysis ☒ MSDS ☒ Process/Generator knowledge ☐ Other (specify)☐ Yes ☒ No Is the material <500 PPMW VOC as generated☐ Yes ☒ No Is the waste restricted under EPA Land Disposal Restrictions☐ Yes ☐ No Waste Subject to Benzene NESHAP regulations

(40 CFR 268), if yes please complete LDR form

☒ Yes ☐ No State waste codes

00023403H

\* LDR treatment sub-category

☐ Wastewater☐ Non-wastewater☐ Yes ☐ No CERCLA Regulated (Superfund) Waste☐ Yes ☒ No Exempt Waste: If yes, list ref. 40 CFR☐ Yes ☐ No EPA Haz. Waste (list codes)

D001

F005

☒ Yes ☐ No Contains UHCs/Constituents of Concern: List in section D☐ Yes ☒ No Has the waste been treated after the initial point of generation?☐ Yes ☒ No Subpart XX☐ Yes ☒ No Alternative standards for Soil?

Source Code G

Form Code W

Mgt. Method H

## D. MATERIAL COMPOSITION (Physical/Chemical)

(Range Total > or = 100%) Values are ☒ TCLP ☐ TOTALS

(include additional sheets as necessary)

typical value unit range

Dicyclopentadiene (DCPD) 10 % 5-25

Toluene 0.5 % 0-1

Filler Bags 15 % 0-30

Vermiculite 30 % 0-50

Polymerized solids/bags/PPE/debris 45 % 10-60

## E. Does the waste exhibit or contain the following:

☐ Yes ☒ No Oxidizer☐ Yes ☒ No React. Sulfides ppm☐ Yes ☒ No Explosive☐ Yes ☒ No React. Cyanides ppm☐ Yes ☒ No Organic Peroxide☐ Yes ☒ No Water/Air (Pyrophoric) React.☐ Yes ☒ No Shock Sensitive☐ Yes ☒ No☐ Yes ☒ No Tires☐ Yes ☒ No TSCA Regulated PCB Waste☐ Yes ☒ No Pyrophoric☐ Yes ☒ No Regulated Medical/Infectious Waste☐ Yes ☒ No Radioactive\*\*☐ Yes ☒ No Compressed Gases☐ Yes ☒ No Exempt RAD\*\*

\*\*Additional Radiological info is provided in USEI's WAC Addendum

☐ Yes ☒ No Halogenated Organic Compounds? (per 40 CFR 268, Appendix III)

## F. PHYSICAL CHARACTERISTICS

1. Flash Pt /11

°F (if &lt;140°F, 2. Typical pH:

pH Range: ☐ ≤2☐ Yes ☒ No Possibility of incidental liquids from transportation?☐ >2, <12.50☒ Yes ☐ No Does waste pass the EPA specified paint filter test?☐ ≥ 12.5

## G. GENERATOR'S CERTIFICATION:

☒ Yes ☐ No

I certify this material may be disposed of without further treatment.

Certification Statement: I certify under penalty of law that I am familiar with this waste stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that all known or suspected hazards have been disclosed.

Furthermore, I certify that this form was completed in accordance with the instructions provided.

Signature:

Title:

Date:

3-4-09

Facility use only

First review:

Second review:

Final review:

Date approved:

Date Denied:

☐ US Ecology Nevada (Beatty)☒ US Ecology Texas (Robstown)

Profile #:

Fax (775) 353-2125

Fax (361) 387-0794

☐ US Ecology Idaho (Grand View)

Fax (208) 834-2919

**A. CUSTOMER INFORMATION**\*Waste as shipped will be: ☒ Industrial ☐ NON - Industrial \*(Texas customers only)Generator: Metton America, IncFacility Address: 2727 Miller Cut-off Rd  
(No PO Box) La Porte, TX 77571Mailing Address: 2727 Miller Cut-off RdCity/State/Zip: La Porte, TX 77571Technical Contact: Joy BakerPhone: 281-701-8511Fax: 713-748-8664☐ Check if Billing is SameBilling Company: CES Environmental Services, Inc.Billing Address: 4904 GriggsCity/State/Zip: Houston, TX 77021Billing Contact: Janita ThomasPhone No.: 713-676-1460Fax No.: 713-676-1676Email: ithomas@cesenvironmental.com

NAICS#

325211☐ CESQG☐ SQG☒ LQG

EPA ID:

TXD00726036

State ID#

32049**B. SHIPPING INFORMATION**1. US DOT Shipping Name Waste Flammable solids, organic n.o.s. (Dicyclopentadiene contaminated filters, absorbent, dirt, debris) 2. Hazard Class 4.13. UN/NA # 1325 4. Packaging Group II 5. RQ 1006. Container Type: ☐ Bulk ☐ Totes ☐ PalletSize 55 gal7. Frequency: ☐ Year ☒ QTR ☐ Month☐ Boxes ☐ Bags ☒ Drums ☐ OtherQuantity varies☒ 1 Time ☒ Other**C. GENERAL MATERIAL & REGULATORY INFORMATION**1. Common name for this waste DCPD solids2. Process generating the material Debris contaminated with Component A and B from Reaction injection molding process.

(include additional sheets as necessary)

3. Describe Physical Appearance of Waste Solids4. Describe odor of waste: ☐ None ☒ Slight ☐ Strong Describe: unpleasant odor5. Knowledge is from: ☐ Lab Analysis ☒ MSDS ☒ Process/Generator knowledge ☐ Other (specify)☐ Yes ☒ No Is the material <500 PPMW VOC as generated☐ Yes ☒ No Is the waste restricted under EPA Land Disposal Restrictions☐ Yes ☐ No Waste Subject to Benzene NESHAP regulations

(40 CFR 268), if yes please complete LDR form

☒ Yes ☐ No State waste codes 00023403H\* LDR treatment sub-category ☐ Wastewater ☐ Non-wastewater☐ Yes ☐ No CERCLA Regulated (Superfund) Waste☐ Yes ☒ No Exempt Waste: If yes, list ref. 40 CFR☐ Yes ☐ No EPA Haz. Waste (list codes)D001F005☒ Yes ☐ No Contains UHCs/Constituents of Concern: List in section D☐ Yes ☒ No Has the waste been treated after the initial point of generation?☐ Yes ☒ No Subpart XX☐ Yes ☒ No Alternative standards for Soil?

Source Code G

Form Code W

Mgt. Method H

**D. MATERIAL COMPOSITION (Physical/Chemical)**(Range Total > or = 100%) Values are ☒ TCLP ☐ TOTALS

(include additional sheets as necessary) typical value unit range

Dicyclopentadiene (DCPD) 10 % 5-25Toluene 0.5 % 0-1Filter Bags 15 % 0-30Vermiculite 30 % 0-50Polymerized solids/bags/PPE/debris 45 % 10-60**E. Does the waste exhibit or contain the following:**☐ Yes ☒ No Oxidizer☐ Yes ☒ No React. Sulfides \_\_\_\_\_ ppm☐ Yes ☒ No Explosive☐ Yes ☒ No React. Cyanides \_\_\_\_\_ ppm☐ Yes ☒ No Organic Peroxide☐ Yes ☒ No Water/Air (Pyrophoric) React.☐ Yes ☒ No Shock Sensitive☐ Yes ☒ No☐ Yes ☒ No Tires☐ Yes ☒ No TSCA Regulated PCB Waste☐ Yes ☒ No Pyrophoric☐ Yes ☒ No Regulated Medical/Infectious Waste☐ Yes ☒ No Radioactive\*\*☐ Yes ☒ No Compressed Gases☐ Yes ☒ No Exempt RAD\*\*

\*\*Additional Radiological info is provided in USEI's WAC Addendum

☐ Yes ☒ No Halogenated Organic Compounds? (per 40 CFR 268, Appendix III)**F. PHYSICAL CHARACTERISTICS**1. Flash Pt 111°F (if <140°F, 2. Typical pH: \_\_\_\_\_ pH Range: ☐ ≤ 2☐ Yes ☒ No Possibility of incidental liquids from transportation?☐ >2, <12.50☒ Yes ☐ No Does waste pass the EPA specified paint filter test?☐ ≥ 12.5**G. GENERATOR'S CERTIFICATION:**☒ Yes ☐ No I certify this material may be disposed of without further treatment.

Certification Statement: I certify under penalty of law that I am familiar with this waste stream through analysis and/or process knowledge, and

that all information provided is true, accurate, representative and complete, and that all known or suspected hazards have been disclosed.

Furthermore, I certify that this form was completed in accordance with the instructions provided.

Signature: [Signature]Print Name: Quinn JohnsonTitle: Quinn Johnson Date: 3-4-09

Facility use only

First review

Second review

Final review:

Date approved:

Date Denied:



☐ US Ecology Nevada (Beatty)    ☒ US Ecology Texas (Robstown)    Profile #: \_\_\_\_\_  
Fax (775) 553-2125    Fax (361) 387-0794  
☐ US Ecology Idaho (Grand View)  
Fax (208) 834-2919

**A. CUSTOMER INFORMATION**    \*Waste as shipped will be: ☒ Industrial    ☐ NON - Industrial \*(Texas customers only)

Generator: Metton America, Inc    ☐ Check if Billing is Same

Facility Address: 2727 Miller Cut-off Rd    Billing Company: CES Environmental Services, Inc.  
(No PO Box) La Porte, TX 77571

Mailing Address: 2727 Miller Cut-off Rd    Billing Address: 4904 Griggs

City/State/Zip: La Porte, TX 77571    City/State/Zip: Houston, TX 77021

Technical Contact: Joy Baker    Billing Contact: Juanita Thomas

Phone: 281-701-8511    Fax: 713-748-8664    Phone No.: 713-676-1460    Fax No.: 713-676-1676

Email: jthomas@cesenvironmental.com

NAICS# 325211    ☐ CESQG    ☐ SQG    ☒ LQG    EPA ID: TXD00726026    State ID# 32049

1. US DOT Shipping Name: Waste Flammable liquid, n.o.s. (Dicyclopentadiene, toluene)    2. Hazard Class: 3

3. UN/NA #: 1993    4. Packaging Group: II    5. RQ: 100

6. Container Type: ☐ Bulk    ☐ Totes    ☐ Pallet    Size: 55 gal    7. Frequency: ☐ Year    ☒ QTR    ☐ Month  
☐ Boxes    ☐ Bags    ☒ Drums    ☐ Other    Quantity: varies    ☐ 1 Time    ☐ Other

1. Common name for this waste: B-component Waste

2. Process generating the material: Reaction injection molding - off spec and low reactivity product from plastics and resin manufacturer  
(include additional sheets as necessary)

3. Describe Physical Appearance of Waste: Medium viscosity, 85-95 % liquid material

4. Describe odor of waste: ☐ None    ☐ Slight    ☒ Strong    Describe: unpleasant odor

5. Knowledge is from: ☐ Lab Analysis    ☒ MSDS    ☒ Process/Generator knowledge    ☐ Other (specify) \_\_\_\_\_

☐ Yes    ☒ No    Is the material <500 PPMW VOC as generated    ☒ Yes    ☐ No    Is the waste restricted under EPA Land Disposal Restrictions  
☐ Yes    ☐ No    Waste Subject to Benzene NESHAP regulations    (40 CFR 268), if yes please complete LDR form  
☒ Yes    ☐ No    State waste codes    0005203H    \* LDR treatment sub-category    ☐ Wastewater    ☐ Non-wastewater  
☐ Yes    ☐ No    CERCLA Regulated (Superfund) Waste    ☐ Yes    ☒ No    Exempt Waste: If yes, list ref. 40 CFR  
☐ Yes    ☐ No    EPA Haz. Waste (list codes)    D001    F005    ☒ Yes    ☐ No    Contains UHCs/Constituents of Concern: List in section D  


☐ Yes    ☒ No    Has the waste been treated after the initial point of generation?  
☐ Yes    ☒ No    Subpart XX    ☐ Yes    ☒ No    Alternative standards for Soil ?  
Source Code G    Form Code W    Mgt. Method H

(Range Total > or = 100%) Values are ☒ TCLP    ☐ TOTALS    (include additional sheets as necessary)

	typical value	unit	range
Dicyclopentadiene (DCPD)	88	%	78-98
Ethylmethylbenzene	4	%	
Tungsten hexachloride	1	%	0-1.5
Unsaturated Polycyclic Monomer	4	%	2-10
Carbon Black	2	%	1-3
Toluene	600	ppm	0-800

☐ Yes    ☒ No    Oxidizer    ☐ Yes    ☒ No    React. Sulfides    \_\_\_\_\_ ppm  
☐ Yes    ☒ No    Explosive    ☐ Yes    ☒ No    React. Cyanides    \_\_\_\_\_ ppm  
☐ Yes    ☒ No    Organic Peroxide    ☐ Yes    ☒ No    Water/Air (Pyrophoric) React.  
☐ Yes    ☒ No    Shock Sensitive    ☒ Yes    ☐ No    Thermally Unstable: decomposes to cyclopentadiene above 284 deg F  
☐ Yes    ☒ No    Tires    ☐ Yes    ☒ No    TSCA Regulated PCB Waste  
☐ Yes    ☒ No    Pyrophoric    ☐ Yes    ☒ No    Regulated Medical/Infectious Waste  
☐ Yes    ☒ No    Radioactive\*\*    ☐ Yes    ☒ No    Compressed Gasses  
☐ Yes    ☒ No    Exempt RAD\*\*    \*\*Additional Radiological info is provided in USEI's WAC Addendum  
☐ Yes    ☒ No    Halogenated Organic Compounds? (per 40 CFR 268, Appendix III)

**F. PHYSICAL CHARACTERISTICS**

1. Flash Po: 111 °F (if <140°F)    2. Typical pH: \_\_\_\_\_    pH Range: ☐ ≤ 2  
☐ Yes    ☒ No    Possibility of incidental liquids from transportation?    ☐ >2, <12.50  
☐ Yes    ☒ No    Does waste pass the EPA specified paint filter test?    ☐ ≥ 12.5

☒ Yes    ☐ No    I certify this material may be disposed of without further treatment.

**Certification Statement:** I certify under penalty of law that I am familiar with this waste stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that all known or suspected hazards have been disclosed.

Furthermore, I certify that this form was completed in accordance with the instructions provided.

Signature: \_\_\_\_\_    Title: \_\_\_\_\_    Date: \_\_\_\_\_    Print Name: \_\_\_\_\_







<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
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**SECTION 1: Generator Information**

Company: Metton America, Inc.  
Address: 2727 Miller Cut-off Rd  
City: La Porte State: TX Zip: 77571  
Contact: Judy Johnson Title:  
Phone Number: 281.479.9768 Fax Number: 281.479.4906  
24/hr Phone Number: 713.817.1627  
US EPA ID No: TXD00726026  
State ID No: 32049 SIC Code:

**SECTION 2: Billing Information -** ☒ Same as Above

Company:  
Address:  
City: State: Zip:  
Contact: Title:  
Phone Number: Fax Number:

**SECTION 3: General Description of the Waste**

Name of Waste: Lab Debris  
Detailed Description of Process Generating Waste:

**Laboratory Testing**

Physical State: ☐ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: none

Specific Gravity (water=1): na Density: na lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: variable

☐ Yes ☒ No

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

**Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)**

☐ Yes ☒ No

**If "Yes", then please list ALL applicable codes:**

00024031

Non RCRA Non DOT Regulated material (Lab waste)

**Class:** na **UN/NA:** na **PG :** na **RQ:** na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		neutral		0 <u>mg/l</u>		0      mg/l		100      %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	mg/l	na	mg/l	na	mg/l	na	mg/l	na	mg/l

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste

approval package. none

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

none known

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	<u>x</u>
TCLP Volatiles:	<u>x</u>
TCLP Semi-Volatiles:	<u>x</u>
Reactivity:	<u>x</u>
Corrosivity:	<u>x</u>
Ignitability:	<u>x</u>

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10 Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

**Authorized Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Printed Name/Title:** \_\_\_\_\_

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_ ☐ Approved ☐ Rejected

Approval Number: \_\_\_\_\_

**SET Environmental, Inc.**  
5738 Cheswood Street - Houston, TX 77087  
713-645-8710 // 800-598-7328  
Fax: 713-649-1027  
www.setenv.com

TNRCC Permit No. HW-50267  
EPA ID No. TXD055135388

## WASTESTREAM PROFILE

### SET ENVIRONMENTAL INC Use Only

Approval No.: \_\_\_\_\_  
Sales Rep.: \_\_\_\_\_

Treatment/Handling Code: \_\_\_\_\_  
Disposal Accrual: \_\_\_\_\_  
Pricing: \_\_\_\_\_

### I. GENERATOR INFORMATION

Generator **Metton America, Inc.**  
Contact **Dale Joly**  
Telephone **281-479-8078 x 103**  
Fax **281-479-4906**  
Mailing Address **2727 Miller Cut-Off Rd.**  
City, State Zip **La Porte, TX 77571**  
Site Address \_\_\_\_\_  
City, State Zip \_\_\_\_\_

Broker Name \_\_\_\_\_  
Contact \_\_\_\_\_  
Telephone \_\_\_\_\_  
Fax \_\_\_\_\_  
Mailing Address \_\_\_\_\_  
City, State Zip \_\_\_\_\_

U.S. EPA ID No: **TXR000726026**

Texas Generator ID No. **32049**

### II. GENERAL WASTE INFORMATION

Wastestream Name: **Class 1 - Lab Debris**

FREQUENCY \_\_\_\_\_  
☐ One Time ☐ Yearly  
☐ Monthly ☐ Quarterly  
☒ Other \_\_\_\_\_

CONTAINER TYPE \_\_\_\_\_  
☒ Metal ☐ Wood  
☐ Poly ☐ Fiber

QUANTITY Variable ☐ Tote  
☒ Drum ☐ Gallons ☐ Pounds ☐ Cu. Yard

CONTAINER SIZE \_\_\_\_\_  
\_\_\_\_\_ Gal **55 Gal**  
\_\_\_\_\_ Gal \_\_\_\_\_ Cu Yd  
\_\_\_\_\_ Gal \_\_\_\_\_ Tote

### III. SPECIFIC HAZARDS Please identify all that apply.

Explosive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Organic Peroxide <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Polymerizer <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Shock Sensitive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Poison <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	PCB >1 ppm <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Compressed Gas <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Infectious <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Carcinogen <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pyrophoric <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Radioactive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water Reactive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrosive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Oxidizer <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Dioxin or Suspect <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

### IV. PROCESS

Describe the process generating the waste, including raw materials and final product.

☐ Unused (Attach MSDS)  
☐ Used/Spent (Attach laboratory analysis)

Laboratory testing \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Total of components must equal 100%**

[illegible]

<b>Specific Gravity</b>	<b>1.0 - 1.2</b>	<b>Odor</b>	<b>None</b>	<b>Color</b>	<b>Varies</b>
-------------------------	------------------	-------------	-------------	--------------	---------------

<b>TURBIDITY</b> <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque	<b>VISCOSITY</b> <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Medium	<b>METALS PRESENT</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;"><input type="checkbox"/> Yes</th> <th style="width: 10%; text-align: center;"><input checked="" type="checkbox"/> No</th> <th style="width: 20%; text-align: center;">PPM</th> </tr> </thead> <tbody> <tr><td>Aluminum</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Antimony</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Arsenic</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Barium</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Beryllium</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Cadmium</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Chromium</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Cobalt</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Copper</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Lead</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Manganese</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Mercury</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Nickel</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Selenium</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Silver</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Thallium</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> <tr><td>Zinc</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>_____</td></tr> </tbody> </table>			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	PPM	Aluminum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Antimony	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Arsenic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Barium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Beryllium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Cadmium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Chromium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Cobalt	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Copper	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Lead	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Manganese	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Mercury	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Nickel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Selenium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Silver	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Thallium	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	Zinc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
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<b>PHYSICAL STATE</b> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Solid  <input type="checkbox"/> Sludge  <input type="checkbox"/> Liquid  <input type="checkbox"/> Gas         </div> <div style="text-align: right;">           Percent            _____            _____            _____         </div> </div>	<b>FLASHPOINT</b> <input type="checkbox"/> = or < 73°F <input checked="" type="checkbox"/> 140°F - 200°F <input type="checkbox"/> 73°F - 99°F <input type="checkbox"/> = or > 200°F <input type="checkbox"/> 100°F - 139°F Exact _____	<b>BTU/lb</b> _____ <b>Range</b> <b>LOW 3,000</b> <b>Ash %</b> _____ <b>Range</b> _____ <b>Water %</b> _____ <b>Range</b> _____ <b>Sulfur %</b> _____ <b>Range</b> _____ <b>Chlorine %</b> _____ <b>Range</b> _____ <b>Fluorine %</b> _____ <b>Range</b> _____ <b>Bromine %</b> _____ <b>Range</b> _____																																																																									
<b>LAYERING</b> <input type="checkbox"/> Homogeneous <input type="checkbox"/> Bihayered <input checked="" type="checkbox"/> Multilayered	<b>pH</b> <input type="checkbox"/> < 2 <input type="checkbox"/> 8 to 10 <input type="checkbox"/> 2 to 4 <input type="checkbox"/> 10 to 12.5 <input type="checkbox"/> 4 to 6 <input type="checkbox"/> > 12.5 <input type="checkbox"/> 6 to 8 Exact _____	<b>Total Cyanide</b> _____ <b>ppm</b> <b>Reactive Cyanide</b> _____ <b>ppm</b> <b>Total Sulfide</b> _____ <b>ppm</b> <b>Reactive Sulfide</b> _____ <b>ppm</b> <b>TOC</b> _____ <b>ppm</b>																																																																									
<b>VAPOR PRESSURE @ 100°F</b> <input type="checkbox"/> < 76.6 kPa (575 mmHg) <input type="checkbox"/> > 76.6 kPa (575 mmHg)																																																																											

**VII. REGULATORY INFORMATION****Texas Waste Code****00024031**

Is the hazardous waste determination based on the generator's detailed knowledge of the waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the hazardous waste determination based on the analysis of the waste? If yes, please attach analysis.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does this waste meet the definition of debris in 40 CFR 268.2(g)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If this is a characteristically hazardous waste (i.e., D-Coded), does it contain any underlying hazardous constituents as defined in 40 CFR 268.2(f)? If yes, identify each constituent and their percentages in Section V. Waste Composition.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372.65? If yes, list these chemicals, CAS # and their percentages in Section V. Waste Composition. <a href="http://www.epa.gov/ttri/chemical/chemlist2001.pdf">http://www.epa.gov/ttri/chemical/chemlist2001.pdf</a>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does this waste contain any of the EHS identified in section 302 of EPCRA? If yes, list these chemicals, CAS # and their percentages in Section V. Waste Composition. <a href="http://www.epa.gov/swercepp/ehs/ehsalpha.html">http://www.epa.gov/swercepp/ehs/ehsalpha.html</a>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is this waste regulated under the National Emissions Standard for Benzene Waste Operations (40 CFR Part 61 Subpart FF)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does this waste meet the definition of a wastewater (40 CFR 268.2 (f))?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is this waste being shipped in DOT specification packages authorized for the material they contain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

EPA Hazardous Waste No.	Subcategory	EPA Hazardous Waste No.	Subcategory

Shipping Name Laboratory waste - non-regulated

Additional Descriptors \_\_\_\_\_

Technical Names \_\_\_\_\_

Hazard Class UN/NA Number Packing Group RQ **VII. GENERATOR'S CERTIFICATION**

I hereby certify that the information identified above and attached to this profile is complete and accurate to the best of my knowledge and ability to determine that no omissions of composition or properties exist, and that all known or suspected hazards have been disclosed. I also understand it is my responsibility to properly identify and classify my waste in accordance with USEPA, US DOT and State regulations.

\_\_\_\_\_  
GENERATOR'S NAME\_\_\_\_\_  
TITLE\_\_\_\_\_  
SIGNATURE\_\_\_\_\_  
DATE

JBI AL  
Need RCRA  
metals

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TX0008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

TCLP  
volTCLP  
Semi  
vol**SECTION 1: Generator Information**

Company: Metton America, Inc.  
Address: 2727 Miller Cut-off Rd  
City: La Porte State: TX Zip: 77571  
Contact: Judy Johnson Title: \_\_\_\_\_  
Phone Number: 281.479.9768 Fax Number: 281.479.4906  
24/hr Phone Number: 713.817.1627  
US EPA ID No: TXD00726026  
State ID No: \_\_\_\_\_ SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information -** ☒ Same as Above

Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Contact: \_\_\_\_\_ Title: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

**SECTION 3: General Description of the Waste**

Name of Waste: Lab Debris  
Detailed Description of Process Generating Waste: \_\_\_\_\_

**Laboratory Testing**

Physical State: ☐ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: none

Specific Gravity (water=1): na Density: na lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No  
Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-Time

Quantity: variable

☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

**Characteristic for Toxic Metals:**

☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009  
☐ D010 ☐ D011

**Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)**

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR Z61.33(e) or (f)? ☐ Yes ☒ No

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

**Texas State Waste Code Number:**

00024031

**Proper US DOT Shipping Name:**

**Non RCRA Non DOT Regulated material (Lab waste)**

Class: na UN/NA: na PG: na RQ: na

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		neutral		0	mg/l	0	mg/l	100	%
Oil & Grease		TOC		Zinc		Copper		Nickel	
>1500	mg/l	na	mg/l	na	mg/l	na	mg/l	na	mg/l

#### SECTION 4: Physical and Chemical Data

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. none

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

none known

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	x
TCLP Volatiles:	x
TCLP Semi-Volatiles:	x
Reactivity:	x
Corrosivity:	x
Ignitability:	x

**SECTION 9: Waste Receptor Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**Is this material a wastewater or wastewater sludge?  
If "Yes", complete this section.☐ YES ☒ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send off-site to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

☐ Approved☐ Rejected

Approval Number: \_\_\_\_\_



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$ 65 / drum + Trans + FSC

2. Contamination Limit (maximum limit before surcharges apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

CLASS 1 solids

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A    ☐ Subcategory B    ☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable)**

--

## SAFETY -DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

- . CHEMICAL PRODUCT NAME : H-DCP
- . NAME OF MANUFACTURER/SUPPLIER: MARUZEN PETROCHEMICAL CO., LTD.
- . NAME OF SECTION: SAFETY & ENVIRONMENTAL PROTECTION DEPT.
- . ADDRESS : 25-10, HATCHOBORI 2-CHOME, CHUO-KU, TOKYO, JAPAN
- . TELEPHONE NUMBER : 03-3552-9364
- . FAX NUMBER : 03-3555-0768

2. COMPOSITION/INFORMATION ON INGREDIENTS

- CHEMICAL (SUBSTANCE). MIXTURE(PREPARATION) : CHEMICAL
- . CHEMICAL NAME (GENERIC NAME) : Dicyclopentadiene
- . SYNONYM(S) : 3a,4,7,7a-Tetrahydro-4,7-Methanoindene
- . CAS REGISTRY NUMBER : 77-73-6
- . INGREDIENTS(IMPURITIES) AND COMPOSITION: Not less than 99%
- . CHEMICAL FORMULA(CONSTITUTIONAL FORMULA. STRUCTURAL FORMULA): C<sub>10</sub>H<sub>12</sub>
- . UN CLASS: 3
- . UN No. : 2048

3. HAZARDS IDENTIFICATION

- . CLASS NAME IN THE JAPAN CLASSIFICATION SYSTEM OF HAZARDOUS CHEMICALS FOR PREPARING SDS: Inflammable liquids
- . PHYSICAL AND CHEMICAL HAZARDS: In use, may form inflammable / explosive vapor-air mixture.
- . ADVERSE HUMAN HEALTH EFFECTS: Absorbed through wind pipe by inhalation.
- . ENVIRONMENTAL EFFECTS: This material is designated as marine pollutant.

4. FIRST-AID MEASURES

- . EYE CONTACT: . Gently rinse the affected eye(s) with clean water for at least 15 minutes.
- . Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

(1-8 H -DCP 1993.5.20 (2/5)

. SKIN CONTACT: . Remove clothing, shoes and socks from the affected areas as quickly as possible.

. Wash the affected area under tepid running water using mild soap.

. INHALATION: . Remove the victim from the contamination immediately to fresh air.

. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

. INGESTION: . Rinse mouth with water.

. Try to get the victim to vomit by having the victim touch the back of their throat with a finger.

. Arrange for transport to the nearest medical facility for

. Examination and treatment by a physician as soon as possible.

## 5. FIRE-FIGHTING MEASURES

. EXTINGUISHING MEDIA: . In case of fire, use water spray, foam, dry chemical powder or carbon dioxide.

. SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES:

. Keep personnel removed from and upwind of fire.

. Firefighters should wear proper protective equipment.

. Move containers from fire areas if it can be done without risk.

. Shut off fuel to fire if possible to do so without hazard.

## 6. ACCIDENTAL RELEASE MEASURES

. Evacuate non essential personnel.

. Wear proper protective equipment.

. Shut off all sources of ignition.

. Sweep up, place in a bag and hold for waste disposal.

. In case of spill vacuum and remove.

## 7. HANDLING & STORAGE

. HANDLING: . Use in the well-ventilated areas.

..Avoid contact with skin or eyes.

. Evacuate non essential personnel.

. Equipments should be grounded and bonded.

. Use explosion proof electrical (ventilating and lighting) equipment.

1-8 H-DCP 1993.5.20 (3/5)

- . STORAGE: . Store in a cool dry, well-ventilated location.
- . Keep away from heat, steam pipe or sunlight.
  - . Separate from oxidized materials.

## 8. EXPOSURE CONTROL/PERSONAL

### PROTECTION. CONTROL PARAMETERS

- . ACGIH TLV (1977)
  - TWA 5ppm (27 mg/m<sup>3</sup>)
- . ENGINEERING MEASURES
  - . Use with local exhaust ventilation.
  - . Make available in the work area emergency shower and eye wash.
- . PERSONAL PROTECTIVE EQUIPMENT
  - . RESPIRATORY PROTECTION: Wear gas mask with an organic vapor canister.
  - . EYE PROTECTION: Wear protective eyeglasses or chemical safety goggles.
  - . HAND, SKIN AND BODY PROTECTION:
    - . To prevent any contact, Wear impervious clothing such as gloves, apron, boots or whole body suits, as appropriate.

## 9. PHYSICAL & CHEMICAL PROPERTIES

- . PHYSICAL STATE, FORM: Solid
- . APPEARANCE: Crystal
- . COLOUR: White
- . ODOR: Unpleasant odor
- . DENSITY: 0.977 (35/4 C)
- . BOILING POINT: 170C
- . MELTING POINT: 33.6C
- . VAPOR PRESSURE: 13.3 KPa (105 C)
- . SOLUBILITY IN WATER: Insoluble
- . SOLUBILITY IN ORGANIC SOLVENT: Soluble in alcohol, ether

## 10. PHYSICAL HAZARD (STABILITY & REACTIVITY)

- . FLASH POINT: 44 C
- . AUTOIGNITION TEMPERATURE: 491 C
- . UPPER AND LOWER EXPLOSION LIMIT: 7.0 vol% • 1 vol%
  - . Flammability: Vapor may catch fire and explode.
  - . Spontaneous combustibility: not applicable

1-8 H-DCP 1993.5.20 (4/5)

Reactivity with water: Not applicable

.Oxidizibility: Not applicable}

.Self-reactivity: Not applicable

- . STABILITY & REACTIVITY: . This material decomposes to cyclopentadiene when heated in 140-170-C.

#### 11. TOXICOLOGICAL INFORMATION

- . Corrosive and irritant properties: . This material is mildly irritating to rat skin and eye.

. Allergenic and sensitizing effects: . No relevant information found.

- |                     |                     |      |           |
|---------------------|---------------------|------|-----------|
| . Acute toxicity: . | . Oral (mouse)      | LD50 | 190mg/kg  |
|                     | . Oral (rat)        | LD50 | 353mg/kg  |
|                     | . Dermal (rabbit)   | LD50 | 5080mg/kg |
|                     | . Inhalation(mouse) | LD50 | 145ppm/4H |

- . Sub-chronic toxicity: . Rats exposed to 332ppm repeatedly for 10 days died. but rats to 146ppm did not die.

. Chronic toxicity: . Rats exposed to 74 ppm and 35ppm for 7 hours per day for 89 labor days showed kidney damage.

. Carcinogenic effects: . No relevant information found.

. mutagenic effects: . This material is negative in mutagenic effects test using salmonella fungus.

. Effects on the reproductive system: . No relevant information found.

. Teratogenic: effects: . No relevant information found.

#### 12. ECOLOGICAL INFORMATION

. Biodegradability: . No relevant information found.

. Bioaccumulation: . No relevant information found.

. Fish toxicity: . No relevant information found.

#### 13. DISPOSAL CONSIDERATION

Any disposal practice must be in compliance with local state or federal laws and regulations.

#### 14. TRANSPORT INFORMATION

- . Any transportation practice must be in compliance with local state or federal laws and regulations.

1-8 H-DCP 1993.5.20 (5/5)

15. REGULATORY INFORMATION

Follow all federal, state and local regulations in your country.

16. OTHER INFORMATION

. References: No specific notes.

. To the best of our knowledge the information contained here in is accurate.

However, neither MARUZEN PETROCHEMICAL CO.,LTD. nor any subsidiaries assumes

any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the

sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although

certain hazards are described herein, we

cannot guarantee that these are the only hazards which exist.



- After

off-Spec Products



## Certificate of Analysis

C of A Date:01/22/2008

Customer: \_\_\_\_\_

Register: \_\_\_\_\_

Customer Order: \_\_\_\_\_

Car/Trailer: \_\_\_\_\_

Batch No.: 8233B

Lot No.: \_\_\_\_\_

**Product:** \_\_\_\_\_

**HITEC 552GP**

Property	Method	Units	Minimum	Maximum	Result
Phosphorus	ICP	Mass %	0.45	0.61	0.51
Sulfur	ASTM D7039	M%	2.98	4.04	3.31
Flash Point,PM	ASTM D93	C	120		150
Specific Gravity @ 15.6/15.6 C	ASTM D4052		0.886	0.916	0.902
Zinc	ICP	Mass %	0.50	0.70	0.60
Nitrogen	ASTM D5291	Mass%	0.12	0.20	0.14
Appearance		Visual	Pass		Pass
Viscosity @ 100 C	ASTM D445	cSt	70	130	112
Infrared Spectrum			Matches Reference		Pass
Acid Number, Total	ASTM D664	mgKOH/g	Report		2.75

This Certificate of Analysis prepared by South Coast Terminal

**Lester Young**

FOR, LESTER YOUNG  
LABORATORY MANAGER

EPAHO082001569

\*\*\*\* INTERNAL USE ONLY \*\*\*\*

## Sales Specification Sheet

HiTEC<sup>®</sup> 552GP

ExxonMobil

Date Effective: December 5, 2007

### Sales Specification Characteristics

<u>Inspection</u>	<u>Units</u>	<u>Method</u>	<u>Instrument</u>	<u>Min</u>	<u>Limits</u>	
					<u>Target</u>	<u>Max</u>
Phosphorus	%M	D4951 Mod	ICP	0.45	0.53	0.61
Sulfur	%M	D1552	LECO SC-432	2.98	3.51	4.04
Flash Pt. °C (PMCC)	°C	D93 Mod	Auto Flash Tester	120		
Sp. Gr. @ 15.6/15.6°C	Sp Gr	D4052	DMA-4500	0.886	0.901	0.916
Zinc	%M	D4951 Mod	ICP	0.50	0.60	0.70
Nitrogen	%	D5291 Mod	LECO FP-2000	0.12	0.16	0.20
Appearance (1)		EC-112A	Visual			
Visc @ 100°C	cSt	D445	Cannon Autovisc	70	100	130
FTIR (2)		EC-180B	FTIR			
TAN	mgKOH/g	D664 Mod	Buret		Report	

(1) Light Brown Liquid

(2) Must match standard

### Additional Product Information

Handling Temperature:

Recommended handling & storage temp.: ambient

Max. storage temp.: 50°C

Max. handling & blending temp.: 85°C

Max. skin temp. (static): 100°C

Max. skin temp. (agitated): 121°C

Shelf Life Recommendation: 24 months @ ambient

Thermal Coefficient of Expansion: 0.00066/°C

AFTON CHEMICAL PRODUCT  
MANAGER:

\_\_\_\_\_

CUSTOMER ACCEPTANCE:

\_\_\_\_\_

NAME:

\_\_\_\_\_

TITLE:

\_\_\_\_\_

COMPANY NAME:

\_\_\_\_\_

DATE:

\_\_\_\_\_

EPAHO082001570



## Material Safety Data Sheet

(b) (4)

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(b) (4)





(b) (4)



EPAHO082001575

(b) (4)



\*\*\* END OF MSDS \*\*\*

at Southeast + pass used to sell to Exxon But they are not making it anymore

Gear Additive w/ Rust Inhibitor 4,2000 Base Oil 6790 Little Phosphorous Amine/Phenol/Zinc

#55261 - market as is  
- spec. sheet - more samples  
- Actual Analysis

Value \$1.50 -  
2.50 #  
as good product

Remove Haze & Color  
- need more sample to run in our lab  
As Fuel Worst Case

Ethylene-Propylene Copolymer - Gear Additive (Petroleum)  
half Base Oil / Half Polymer

\$100,000 per truck load

- Try to market as is

- 24 metric tons left

- Need MSDS / Samples / spec. sheet (material is on spec.)

- Do not make this anymore

- used to make for Conoco

\* End of July  
Deadline on Everything!

\* We owe him a lunch



# Material Safety Data Sheet

## HiTEC 5760 Performance Additive

MSDS No. H5760

HiTEC is a trademark owned by Afton Chemical Corporation or one of its subsidiaries.

### 1. Product and Company Identification

**Product Use** Petrochemical industry: Viscosity Index Improver

**Validation Date** 21 February 2007

#### In Case of Emergency - Chemical

1-800-403-0044 (US & Canada)  
1-804-648-7727 (International)  
32-2-507-20-64 (Europe)  
81-3-5210-4890 (Japan)

#### Manufacturer / Supplier

Afton Chemical Corporation  
500 Spring St.  
Richmond, VA 23219  
1-804-788-5800

Afton Chemical Limited  
Euro-Tech Centre  
London Road, Bracknell, Berkshire  
RG12 2UW, England  
44 1344-304141

In Japan:  
Afton Chemical Japan Corporation  
Sumitomo Fudousan Sanbancho Bldg. 5F  
6-26 Sanbancho, Chiyoda-ku  
Tokyo 102-0075 Japan  
Emergency phone: 81-3-5210-4890

In Australia:  
Afton Chemical Asia Pacific Company  
Level 9, 20 Berry Street  
North Sydney, NSW 2060  
Australia  
Telephone number: 02-9923-1588  
Business Hours: 9:00am - 5:00pm

### 2. Composition and Information on Ingredients

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

**Substance/Preparation** : Substance

<u>Ingredient name</u>	<u>CAS No.</u>	<u>Conc. (% w/w)</u>	<u>EU Classification</u>	<u>WHMIS Regulated?</u>
No component is present at sufficient concentration to require a hazard classification for health in accordance with EC Directives.				

### 3. Hazards Identification

#### Notice to Reader

*Afton operates a world-wide system for hazard communication. Some hazards shown in Section 3 may apply to non-EU countries and may not result in classification and labeling in the EU. Please see Section 2 and 15 for country specific classification information, and Section 11 for additional details.*

The substance is not classified as dangerous according to Directive 67/548/EEC and its amendments.

Not classified as hazardous according to the criteria of NOHSC nor classified as dangerous goods according to the ADG Code.

**Primary Hazards and Critical Effects** : NOTICE!

**Environmental Hazards** : Not classified as dangerous for the environment according to EC criteria.

**Hazardous Material  
Information System  
(U.S.A.)**

<b>Reactivity</b> 0

EPAHO082001578

## 4. First Aid Measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- Ingestion** : If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : Wash with soap and water. Get medical attention if irritation develops.
- Eye Contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

## 5. Fire-Fighting Measures

- Extinguishing Media** : In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>.
- Fire-Fighting Procedures** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Flash point** : Closed cup: 180°C (356°F). (Pensky-Martens. Minimum)

## 6. Accidental Release Measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).
- Environmental Precautions and Clean-up Methods** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

**Note:** See section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and Storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure Controls and Personal Protection

- Engineering Controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
- Personal Protective Equipment**
- Respiratory System** : Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
- Skin and Body** : Disposable outer garments when there is the potential for contact with the material.
- Hands** : Use chemical resistant, impervious gloves.
- Eyes** : Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

### Occupational Exposure Limits

<u>Inгредиент Name</u>	<u>OEL United States</u>	<u>OEL Canada</u>	<u>OEL Europe</u>	<u>OEL Australia</u>
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Exposure limit not established.

## 9. Physical and Chemical Properties

- Physical State and Appearance** : Liquid. (Clear to slightly hazy liquid. Viscous liquid.)
- Color** : Off-white. (Light.)
- Odor** : Petroleum-like. (Slight.)
- Specific Gravity** : 0.853 @ 15.6°C
- Solubility** : Insoluble in cold water.
- Viscosity** : 20000 cSt @ 40°C  
1100 cSt @ 100°C (typical)
- Flash Point** : Closed cup: 180°C (356°F). (Pensky-Martens. Minimum)

## 10. Stability and Reactivity

**Stability** : The product is stable.

**Materials to avoid** : Strong oxidizing and reducing agents.

**Conditions to avoid** : High temperature, sparks, and open flames.

## 11. Toxicological Information

**Routes of Entry** : Skin, Eyes, Ingestion, and Inhalation.

**Target Organs** : None known.

### Acute Effects

**Inhalation** : Not determined.

**Ingestion** : Not determined.

**Skin Contact** : Non-irritating to the skin.

**Eye Contact** : Non-irritating to the eyes.

### Chronic Effects

**Adverse Effects** : Not determined.

### Toxicity Data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Not determined.				

**Other information** : Not available.

## 12. Ecological Information

**Environmental Hazards** : Not classified as dangerous for the environment according to EC criteria. Based on calculation.

**Environmental Fate** : This product contains components which may be persistent in the environment.

## 13. Disposal Consideration

**Waste Handling and Disposal** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-
ADG Class	Not regulated.	-	-	-		-

### Notice to Reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

## 15. Regulatory Information

### EU Regulations

**Risk Phrases** : This product is not classified according to EU legislation.  
**Safety Phrases** : Not applicable.

### US Regulations

**SARA 313 toxic chemical notification and release reporting** : No SARA 313 chemicals are present above the reporting threshold.  
**SARA 311/312 Hazardous Categorization** : SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
**RQ (Reportable quantity)** :  
  
**State - California Prop. 65** : No products were found.

### Canadian Regulations

**WHMIS (Classification)** : Not controlled under WHMIS (Canada).

### International Inventory Status

**United States** : All components on TSCA Inventory  
**Canada** : All components on DSL  
**Europe** : All components on EINECS  
**Japan** : All components on METI  
**Australia** : All components on NICNAS  
**Korea** : All components on ECL  
**China** : All components on IECSC  
**Philippines** : All components on PICCS

## 16. Other Information

### PREPARATION INFORMATION

Validated by \_HS&E Department (Tel: +1 804 788 5800) on 2/21/2007.

**Date of Printing** : 2/21/2007.

■ Indicates information that has changed from previously issued version.

#### Notice to Reader

*This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.*

### ADDRESS CONTACT INFORMATION

In the United States and Canada:  
Afton Chemical Corporation  
500 Spring Street  
Richmond, Virginia  
USA 23219-2183  
Telephone number: 804-788-5800

In Singapore:  
111 Somerset Road  
#09-05  
Singapore Power Building  
Singapore 238164  
Telephone number: 65-6732-0822

In Europe:  
Afton Chemical Limited  
Euro-Tech Centre  
London Road, Bracknell, Berkshire  
RG12 2UW, England  
44-1344-304141

In Australia:  
Afton Chemical Asia Pacific Company  
Level 9, 20 Berry Street  
North Sydney, NSW 2060  
Australia  
Telephone number: 02-9923-1588  
Business Hours: 9:00am - 5:00pm

In Japan:  
Afton Chemical Japan Corporation  
Sumitomo Fudousan Sanbancho Bldg.  
5F  
6-26 Sanbancho, Chiyoda-ku  
Tokyo 102-0075 Japan  
Emergency phone: 81-3-5210-4890

\*\*\* END OF MSDS \*\*\*

# Material Safety Data Sheet

Uniroyal Chemical Company, Inc.  
World Headquarters  
Middletown, CT 06449

UNIROYAL Emergency Phone: (203) 723-3670  
CHEMTREC Transportation Emergency Phone: 1-800-424-9300  
SAFETY DATA Information (203) 573-3303

MSDS No. R576040

Date Issued: 5/28/96

Date Revised: 2/8/99; Supersedes: 10/1/98

R-3

## IDENTIFICATION

Trade Name: TRILENE® CP 30

CAS Number: 9010-79-1

Chemical Name: Ethylene-Propylene Copolymer

Chemical Family: Hydrocarbon

## SPECIAL REGULATORY HAZARDS

Ingredient  
Product

CAS No.  
9010-79-1

Exposure Limit  
ND

OSHA (1910.1200)  
No regulated  
hazards

EEC\*  
No regulated  
hazards

Hazard assessment based on available data.

Transportation: NA

## PHYSICAL DATA

Appearance and Odor: Viscous liquid; hydrocarbon odor

Solubility: Insoluble in water; soluble in  
non-polar solvents

Melting Point: NA

Boiling Point: NA

Other Data: NA

Specific Gravity (H<sub>2</sub>O = 1): .83

Vapor Pressure @ 20°C: NA

Vapor Density (Air = 1): NA

Volatility @ 70°F: Low

## FIRE AND EXPLOSION HAZARD DATA

Flash Point: >300°F (149°C) COC

Extinguishing Media: Water fog, foam, CO<sub>2</sub>

Special Fire Fighting Procedures: Protect against inhalation of combustion products. Use water spray to cool fire  
exposed containers, structures and protect personnel.

Unusual Hazards: None identified.

Autoignition Temp: ND

Flammable Limits: NA

## REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: None identified.

Decomposition Products: Oxides of carbon under burning conditions.

NA = Not Applicable

ND = Not Determined

\*European Economic Community

Uniroyal makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Uniroyal's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

## SPECIAL PROTECTION INFORMATION

Engineering Controls: Local exhaust ventilation recommended for all hot processing operations.

Personal Protection Equipment: Gloves and safety goggles should be worn when handling. **Contact with polymer that has been heated to elevated temperatures may cause thermal burns.** If ventilation is inadequate during hot processing, NIOSH-certified respiratory protection should be worn.

## STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat in a dry area. Keep containers closed when not in use.

Spills: Absorb on inert material. Shovel into secure containers for proper disposal.

Disposal: This product is not a listed hazardous waste as sold, however, chemical additions, processings and altering may cause this substance to become a hazardous waste. Therefore, check all applicable local, state and federal regulations regarding resultant waste.

Environmental Information: Environmental effects have not been determined.

## HEALTH RELATED DATA

Specific Hazard(s): Fumes or vapor from heated polymer may be toxic and/or irritating to eyes, skin, mucous membrane and respiratory tract.

Primary Route(s) of Entry: Skin and/or eye contact, Inhalation of hot fumes.

First Aid Procedures: **Skin contact:** Wash area with soap and water. If contact with heated polymer occurs, flush with large quantities of cold water, submerge area in cold water if possible. Get immediate medical attention for thermal burns.  
**Inhalation:** Move to fresh air. Administer artificial respiration if not breathing, administer oxygen if breathing is difficult. Get immediate medical attention.  
**Eye contact:** Flush immediately with water for 15 minutes. Hold eyelids away from eyeball to ensure thorough rinsing. If irritation results or for thermal burns get immediate medical attention.

Toxicology Information:

There are no toxicology data for this material, however, like similar high molecular weight polymers it is not expected to be acutely toxic or hazardous. Hazards as outlined are based on exposure to fumes and vapors.

21CFR175.300	Resinous and polymeric coatings	Not to exceed the amount required to achieve the desired effect in can-end cements
21CFR177.1210	Closures with sealing gaskets for food containers	Not to exceed the amount required to achieve the desired effect
21CFR177.1520	Olefin polymers	Not less than 96% ethylene/propylene
21CFR177.2600	Rubber articles intended for repeated use	Not to exceed the amount required to achieve the desired effect

Carcinogenic per NTP \_\_\_\_\_ IARC \_\_\_\_\_ OSHA \_\_\_\_\_ None  X

TRILENE® CP 30

EPAHQ082001584



## Pure Performance® Base Oil

### Material Safety Data Sheet

**Product Name:** Pure Performance® Base Oil

**MSDS Number:** 787559

**Synonyms:** Pure Performance® Base Oil 70N  
Pure Performance® Base Oil 80N  
Pure Performance® Base Oil 110N  
Pure Performance® Base Oil 150N  
Pure Performance® Base Oil 225N  
Pure Performance® Base Oil 600N

**Intended Use:** Base Oil

**Manufacturer/Supplier:** ConocoPhillips Lubricants  
600 N. Dairy Ashford, 2W900  
Houston, Texas 77079-1175

**Emergency Health and Safety Number:** Chemtrec: 800-424-9300 (24 Hours)

**Customer Service:** 888-877-3170

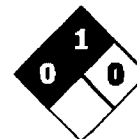
**Technical Information:** 800-255-9556

**MSDS Information:** Internet: <http://w3.conocophillips.com/NetMSDS/>

#### Emergency Overview

#### NFPA

This material is not considered hazardous according to OSHA criteria.



**Appearance:** Clear and bright, Water-white  
**Physical Form:** Liquid  
**Odor:** Petroleum

#### Potential Health Effects

**Eye:** Contact may cause mild eye irritation including stinging, watering, and redness.

**Skin:** Contact may cause mild skin irritation including redness and a burning sensation. Prolonged or repeated contact can defat the skin, causing drying and cracking of the skin, and possibly dermatitis (inflammation). No harmful effects from skin absorption have been reported.

**Inhalation (Breathing):** No information available on acute toxicity.

**Ingestion (Swallowing):** No harmful effects reported from ingestion.

**Signs and Symptoms:** Effects of overexposure may include irritation of the digestive tract, nausea and diarrhea. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

**Pre-Existing Medical Conditions:** Conditions which may be aggravated by exposure include skin disorders.

**See Section 11 for additional Toxicity Information.**



Hydrotreated Distillate, Heavy Paraffin ..C20-50	64742-54-7	0 - 100
Hydrotreated Distillate, Light Paraffin ..C15-30	64742-55-8	0 - 100

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



**Eye Contact:** If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin Contact:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

**Inhalation (Breathing):** If respiratory symptoms develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If symptoms persist, seek medical attention.

**Ingestion (Swallowing):** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Notes to Physician:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.



#### **NFPA 704 Hazard Class**

**Health:** 0    **Flammability:** 1    **Instability:** 0    (0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

**Fire Fighting Instructions:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulfur may also be formed.

**See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits**



**Personal Precautions:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. The use of explosion-proof electrical equipment is recommended. Stay upwind and away from spill/release. Notify persons and shipping down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

**Methods for Containment and Clean-Up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents).

**Precautions for safe handling:** Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

**Conditions for safe storage:** Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

	USA	CAN	EU
Hydrotreated Distillate, Heavy Paraffin ..C20-50	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> (as Oil Mist, if generated)	5 mg/m <sup>3</sup> (as Oil Mist, if generated)	---
Hydrotreated Distillate, Light Paraffin ..C15-30	5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> STEL as Oil Mist, if generated	5 mg/m <sup>3</sup> TWA as Oil Mist, if generated	---

**Note:** State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile.

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

**Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.**

**Note:** Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

<b>Appearance:</b>	Clear and bright, Water-white
<b>Physical Form:</b>	Liquid
<b>Odor:</b>	Petroleum
<b>Odor Threshold:</b>	No data
<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	<1
<b>Vapor Density (air=1):</b>	>1
<b>Boiling Point/Range:</b>	No data
<b>Melting/Freezing Point:</b>	No data
<b>Solubility in Water:</b>	Insoluble
<b>Partition Coefficient (n-octanol/water) (Kow):</b>	No data
<b>Specific Gravity:</b>	0.8558 - 0.8765 @ 60°F (15.6°C)
<b>Bulk Density:</b>	7.14 - 7.31 lbs/gal
<b>Viscosity:</b>	2.88 - 12.02 cSt @ 100°C; 12 - 111 cSt @ 40°C
<b>Percent Volatile:</b>	Nil
<b>Evaporation Rate (nBuAc=1):</b>	Nil
<b>Flash Point:</b>	350°F / 177°C
<b>Test Method:</b>	Cleveland Open Cup (COC), ASTM D92
<b>LEL (vol % in air):</b>	No data
<b>UEL (vol % in air):</b>	No data
<b>Autoignition Temperature:</b>	No data

**Stability:** Stable under normal ambient and anticipated conditions of use.

**Conditions to Avoid:** Extended exposure to high temperatures can cause decomposition.

**Materials to Avoid (Incompatible Materials):** Avoid contact with strong oxidizing agents and strong reducing agents.

**Hazardous Decomposition Products:** Not anticipated under normal conditions of use.

**Hazardous Polymerization:** Not known to occur.

#### **Chronic Toxicity:**

##### **Hydrotreated Distillate, Heavy Paraffin ..C20-50**

**Carcinogenicity:** The petroleum base oils contained in this product have been highly refined by a variety of processes including severe hydrocracking/hydroprocessing to reduce aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAH's and are not considered carcinogens by NTP, IARC, or OSHA.

**Hydrotreated Distillate, Heavy Paraffin ..C20-50**

**Hydrotreated Distillate, Light Paraffin ..C15-30**

**Carcinogenicity:** The petroleum base oils contained in this product have been highly refined by a variety of processes including severe hydrocracking/hydroprocessing to reduce aromatics and improve performance characteristics. All of the oils meet the IP-346 criteria of less than 3 percent PAH's and are not considered carcinogens by NTP, IARC, or OSHA.

**Acute Toxicity:**

Hydrotreated Distillate, Heavy Paraffin ..C20-50	>15 g/kg; >5 g/kg (Rat)	>5 g/kg (Rabbit)	No data
Hydrotreated Distillate, Light Paraffin ..C15-30	>5 g/kg (Rat)	>5 g/kg (Rabbit)	No data

**Ecotoxicity:** Experimental studies show that acute aquatic toxicity values are greater than 1000 mg/l. These values are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

**Mobility:** Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of base oil components in soil and sediment.

**Persistence and degradability:** The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

**Bioaccumulation Potential:** Log Kow values measured for the hydrocarbon components of this material range from 4 to over 6, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle Used Oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

**U.S. Department of Transportation (DOT)**

**Shipping Description:** *Not regulated*

**Note:** *If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)*

**International Maritime Dangerous Goods (IMDG)**

**Shipping Description:** *Not regulated*

**Note:** *U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.*

**International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)**

**UN/ID #:** *Not regulated*



	LTD. QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:	---	---	---
Max. Net Qty. Per Package:	---	---	---



**CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):**

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

**CERCLA/SARA - Section 311/312 (Title III Hazard Categories)**

Acute Health:	No
Chronic Health:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

**CERCLA/SARA - Section 313 and 40 CFR 372:**

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

**EPA (CERCLA) Reportable Quantity (in pounds):**

This material does not contain any chemicals with CERCLA Reportable Quantities.

**California Proposition 65:**

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

**Canadian Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Regulations.

WHMIS Hazard Class  
None

**National Chemical Inventories:**

Hydrotreated Distillate, Heavy Paraffin ..C20-50 64742-54-7	X	X		X		X	X	X	X	X
Hydrotreated Distillate, Light Paraffin ..C15-30 64742-55-8	X	X		X		X		X	X	X

**Legend:** AICS - Australia Inventory of Chemical Substances, DSL - Domestic Substances List (Canada), NDSL - Non-Domestic Substances List (Canada), CHINA - Inventory List, ELINCS - EU List of Notified Chemical Substances, EINECS - European Inventory of Existing Commercial Chemical Substances, ENCS - Japan Existing and New Chemical Substances, KOREA - Existing and Evaluated Chemical Substances, PICCS - Philippines Inventory of Chemicals and Chemical Substances, TSCA - United States Section 8(b) Inventory

**U.S. Export Control Classification Number:** EAR99



Date of Issue:	15-Jan-2009
Status:	Final
Previous Issue Date:	19-Feb-2008
Revised Sections or Basis for Revision:	Environmental hazards (Section 12)
MSDS Number:	787559

**Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

**Disclaimer of Expressed and Implied Warranties:**

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

Zach Surplus - Extra m80s

6/16/2009

## DRUM WASTE LIST

MATERIAL_ID	WHSE_ID	EXPIRE_DATE	CONTAINER_ID	MATERIAL DESCRIPTION
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554452	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554453	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554454	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554455	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554456	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554457	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554458	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/10/2014	0554459	BOH FROM BCF NEUT.
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554641	2-BIPHENYLAMINE HYDROCHLORIDE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554642	2-BIPHENYLAMINE HYDROCHLORIDE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554664	CYCLOHEXANONE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554665	STYRENE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554666	STYRENE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554667	METHANE SULFONIC ACID
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554668	METHANE SULFONIC ACID
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554669	METHANE SULFONIC ACID
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554671	DIISOPROPYLAMINE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554672	DIISOPROPYLAMINE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554673	AMMONIUM HYDROXIDE
HAZ WASTE	PHARMA WASTE PAD	6/14/2014	0554674	AMMONIUM HYDROXIDE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554758	ACETIC ANHYDRIDE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554759	N-METHYL MORPHOLINE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554760	N-METHYL MORPHOLINE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554761	HEPTANE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554762	2-METHYLTETRAHYDROFURAN
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554763	2-METHYLTETRAHYDROFURAN
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554764	2-METHYLTETRAHYDROFURAN
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554765	STYRENE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554766	4-DIOXANE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554767	4-DIOXANE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554768	4-DIOXANE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554769	DICYCHEXYLAMINE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554779	BROMOBENZENE
HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554780	HYDROGEN PEROXIDE

Benzyl Alcohol  
in Calcium water

58 h 3 h 3

Unused

343483

343483

Rac  
mattersUnused  
300 to CES

HAZ WASTE	PHARMA WASTE PAD	6/15/2014	0554781	HYDROGEN PEROXIDE → ES
-----------	------------------	-----------	---------	------------------------

✓ n52 drum 2-Val Powder → CoAs → Waste ✓  
-- high dipeptide --

Ammonium Chloride - Broken Bags

02 SCA - NCA  
DMS ✓

Empty Cylinders

## NONWASTE

MATERIAL_ID	WHSE_ID	EXPIRE_DATE	CONTAINER_ID	MATERIAL DESCRIPTION	
NON-HAZ WASTE	PHARMA WASTE PAD	8/19/2009	0553053	ETOAC (109) TOWELS	
NON-HAZ WASTE	PHARMA WASTE PAD	8/24/2009	0553287	L-VAL (102) BAGS & PPE	✓
NON-HAZ WASTE	PHARMA WASTE PAD	8/24/2009	0553288	Z-VAL-NCA BAGS % PPE	✓
NON-HAZ WASTE	PHARMA WASTE PAD	8/24/2009	0553290	ACETIC ACID WASTE.	
NON-HAZ WASTE	PHARMA WASTE PAD	8/25/2009	0553322	VE3233S BAGS AND SUITS	✓
NON-HAZ WASTE	PHARMA WASTE PAD	8/30/2009	0553561	Z-VALINE BAGS AND PPE	✓
NON-HAZ WASTE	PHARMA WASTE PAD	8/30/2009	0553562	OILY PIGS AND RAGS	
NON-HAZ WASTE	PHARMA WASTE PAD	8/30/2009	0553570	LAB PACKS	
NON-HAZ WASTE	PHARMA WASTE PAD	8/30/2009	0553571	LAB PACKS	
NON-HAZ WASTE	PHARMA WASTE PAD	8/30/2009	0553572	LAB PACKS	
NON-HAZ WASTE	PHARMA WASTE PAD	8/30/2009	0553573	LAB PACKS	
NON-HAZ WASTE	PHARMA WASTE PAD	9/5/2009	0554144	Z-VALINE BAGS SUITS AND GLOVES	✓
NON-HAZ WASTE	PHARMA WASTE PAD	9/5/2009	0554145	Z-VALINE BAGS SUITS AND GLOVES	✓
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554634	Z-L-VALINE FILTERS	✓
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554643	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554644	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554645	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554646	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554647	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554648	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554649	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554650	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554651	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554652	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554653	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554654	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554655	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554656	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554657	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554658	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554659	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554660	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554661	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554662	Z-L-CYCLOHEXYLGLYCINE	
NON-HAZ WASTE	PHARMA WASTE PAD	9/13/2009	0554663	Z-L-CYCLOHEXYLGLYCINE	

NONWASTE

NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554770	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554771	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554772	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554773	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554774	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554775	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554776	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554777	PNPCF	✓		
NON-HAZ WASTE	PHARMA WASTE PAD	9/14/2009	0554778	PIREDONE HCL	✓	72	

# Trailer

MATERIAL_ID	WHSE_ID	EXPIRE_DATE	CONTAINER_ID	MATERIAL_DESCRIPTION	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554786	SODIUM CHLORIDE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554787	SODIUM CHLORIDE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554788	SODIUM CHLORIDE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554789	SODIUM CHLORIDE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554790	SODIUM CHLORIDE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554791	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554792	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554793	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554794	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554795	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554796	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554797	DRY SODIUM HYDROSULFITE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554798	SODIUM AZIDE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554799	POTASSIUM CARBONATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554800	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554801	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554802	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554803	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554804	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554805	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554806	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554807	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554808	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554809	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554810	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554811	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554812	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554813	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554814	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554815	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554816	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554817	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554818	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554819	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554820	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554821	L-CYCLOHEXYGLYCINE	

NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554822	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554823	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554824	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554825	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554826	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554827	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554828	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554829	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554830	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554831	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554832	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554833	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554834	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554835	L-CYCLOHEXYGLYCINE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554836	SODIUM TUNGSATE DIHYDRATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554837	SODIUM TUNGSATE DIHYDRATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554838	SODIUM TUNGSATE DIHYDRATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554839	SODIUM TUNGSATE DIHYDRATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554840	SODIUM TUNGSATE DIHYDRATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554841	SODIUM TUNGSATE DIHYDRATE	
NON-HAZ WASTE	TRUCK WAREHOUSE	9/14/2009	0554842	SODIUM TUNGSATE DIHYDRATE	

Venlafaxine Powder  
 Paracetamol

Material	Quantity	Disposal	Type	Profile number	Status
SCA-NCA,	22- 55 gallon drums	CES	Class 1		Submitted, waiting on approval
CDI ✓	5-25 kg poly drums	CES	Class 1	3289	
PNPCF	38-25 kg poly drums	Rineco PCI	D003, D002	343485	written, waiting on approval
N-butyl ether (NBE)/ Dibutyl ether	4 drums (metal, 55 gal)	SK	D001	40349610	Submitted to SK
	3 full metal drums and one 2/3 full drums	Rineco PCI		343484	written, waiting on approval
Triethylamine					
Lupragen N105-N-methylmorpholin: ○	2 metal drum (55 gal)	TECO		09-006-5229	
ammonium chloride	2450 pounds in 50 pound bags.	CES	class 2 solids	3302	
isopropyl alcohol, 99% anhydrous.	3 drums -355 pounds each	SK	D001	40347614	Submitted to SK
potassium carbonate ✓	4- 53 pound bags	CES	class 2 solids	3303	
potassium carbonate ✓	1-25 kg poly drum	CES	class 2 solids	3303	
<del>4-tert-butylphenol</del> / 40347612					Submitted, waiting on approval
isopropyl ether/Diisopropyl ether	1 drum (55 gal, metal)	SK	D001		
l-tert-leucine, ✓	1 drum (30 gal, fiberboard)	PSC		AL95877	Waste code: 0087203H
N-(2-Aminoethyl)morpholin ✓	1 drum	TECO	D002	09-006-5229	
Pirfenidone mother liquor ✓	8 drums	PSC		AL96107	Waste code: 0107203H
		<del>0900-65448</del>			Submitted, waiting on approval
CIP 100	2/3 of 1 drum	TECO	D002	0900-65448	
		TECO			Submitted, waiting on approval
Methane Sulfonic Acid, anhydrous	2 drums	PCI	D002	343483	
activated carbon ✓	15 bags, 50 pound bags	CES	product	3300	
Z-valine ✓	750 kg, in poly bags in cubic yard box	CES	class 2 solids	3290	

**Joy Baker**

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**From:** Burton, Gary [GBurton@pscnow.com]  
**Sent:** Wednesday, September 24, 2008 2:34 PM  
**To:** Al Longoria  
**Subject:** FW: PSC / Zach Profiles

**From:** Burton, Gary  
**Sent:** Wednesday, September 24, 2008 2:26 PM  
**To:** 'alonzoria@cesenvironmental.com'  
**Subject:** PSC / Zach Profiles

CRS – Avalon  
AL96107 - Mixes solvent with THF - 0107203H  
AL95878 - Water & Methanol - 0087203H  
AL95877 - Z-Valine Toluene, Heptane - 0087203H

PRS – Houston  
EL95261 - Acetic Acid Solution - 0102203H

Thanks:  
Gary Burton  
713-724-9624

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:        Z-L-Cyclohexylglycine  
PRODUCT ID:        01273  
SYNONYMS:        Z-CHG; N-(Carbobenzyloxy)-L-cyclohexylglycine; CBZ-L -  
Cyclohexylglycine; C<sub>16</sub> H<sub>21</sub> NO<sub>4</sub>  
ISSUE DATE:        June 20, 2008  
EDITION NO.:        1

ZaCh System Corporation.  
914 So. 16<sup>th</sup> Street, La Porte, Texas, USA  
24-hour Emergency Telephone Number: 1-281-842-0245  
For Product Safety Information (M-F, 8am-5pm Central time):  
1-281-842-0201

PREPARER: EHS Group

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Material/CAS Number</u>	<u>Percent</u>
Z-L-Cyclohexyl Glycine 69901-75-3	> 99
Undefined impurities	< 1
None	

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

Caution! May cause eye, skin and respiratory tract irritation. May be harmful if inhaled. May be harmful if swallowed.

**Precautions:** Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Use only with adequate ventilation. Ventilation must be sufficient to minimize employee exposure to this product. Use appropriate personal protective clothing and respiratory protection. Do not swallow. The fine dust contained in this product is capable of creating dust explosions. Remove and wash contaminated clothing before reuse. Wash thoroughly every day after work. Do not eat, drink or smoke in work area.

#### 4. FIRST AID MEASURES

**INHALATION:** Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

**EYE/SKIN CONTACT:** EYE: Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary. SKIN: Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

**INGESTION:** Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

## **5. FIRE FIGHTING MEASURES**

**FLASH POINT:** Not Applicable

**EXTINGUISHING MEDIA:** Water spray. Carbon Dioxide. Dry Chemical powder or appropriate foam.

**SPECIAL FIREFIGHTING PROCEDURES:** Dust/air mixtures may ignite or explode. Emits toxic fumes under fire conditions. Fire-fighters must wear NIOSH approved pressure demand, self-contained breathing apparatus and full protective clothing when fighting chemical fires.

## **6. ACCIDENTAL RELEASE MEASURES**

### **ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Avoid generating dust. Dust may cause an explosion hazard. Provide maximum ventilation. Wear proper protective equipment. Sweep or gather up material and place in proper container for disposal or recovery. After all visible traces have been removed, thoroughly wet vacuum the area. Do not flush to sewer. Dispose of waste in accordance with all local, state and federal regulations.

## **7. HANDLING AND STORAGE**

### **PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:**

Store only in closed, properly labeled containers. Store in a cool, dry, well-ventilated place. Store away from strong oxidizing agents. Store and handle away from sunlight and other sources of heat. The fine dust contained in this product is capable of creating dust explosions. When handling this product in large quantities, the guidelines established in NFPA 654, Prevention of Dust Explosions, should be followed.

## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

### **Exposure Limits:**

**8-hour Time Weighted Average (TWA); 15 -minute Short-Term Exposure Limit (STEL)**

**OSHA:** No occupational exposure limits have been established by OSHA for this product.

**ACGIH:** No occupational exposure limits have been established by ACGIH for this product.

**ONTARIO:** No occupational exposure limits have been established by Ontario for this product.

**RESPIRATORY PROTECTION:** If use or application of this product generates dust, use an appropriate NIOSH-approved particulate filter respirator. The respirator use limitations made by NIOSH and by the manufacturer must be observed.

**VENTILATION:** Use local exhaust or general room/dilution ventilation as appropriate to control employee exposures in the work place.

**EYE AND FACE PROTECTION:** Standard safety glasses with side shields.

**PROTECTIVE GLOVES:** Impervious gloves. Rubber.

**OTHER PROTECTIVE EQUIPMENT:** Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>BOILING POINT:</b> _____	NA
<b>VAPOR DENSITY (Air=1):</b> _____	NA
<b>SPECIFIC GRAVITY (Water=1):</b> _____	NA
<b>pH:</b> _____	Neutral
<b>FREEZING/ MELTING POINT:</b> _____	NA
<b>SOLUBILITY (wt. % in water):</b> _____	NA
<b>BULK DENSITY:</b> _____	NA
<b>VOLUME % VOLATILE:</b> _____	NA
<b>VAPOR PRESSURE:</b> _____	NA
<b>HEAT OF SOLUTION:</b> _____	NA
<b>PHYSICAL STATE:</b> _____	Powder or Crystals
<b>ODOR:</b> _____	None
<b>COLOR:</b> _____	White

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable at room temperature.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (CONDITIONS/ MATERIALS TO AVOID):**

Strong Acids. Strong Bases. Strong oxidizers.

**HAZARDOUS THERMAL DECOMPOSITION/ COMBUSTION PRODUCTS:**

Oxides of Carbon. Oxides of nitrogen.

**11. TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY STATUS:** This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH, or OSHA.

**MEDICAL CONDITIONS AGGRAVATED:** None known.

**EFFECTS OF OVEREXPOSURE:****ACUTE:**

Eye/Skin: Eye or skin contact may cause irritation. Inhalation: Breathing dust can irritate the upper respiratory tract, including the eyes, nose, and throat. Ingestion: Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract.

**CHRONIC:** The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.

**12. ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION:**

No data at this time.

**ENVIRONMENTAL FATE:**

No data at this time.

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:**

Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

**14. TRANSPORT INFORMATION**

**Proper Shipping Name:** Not regulated.

**15. REGULATORY INFORMATION**

**USA TSCA:** A component in this product is not listed on the TSCA inventory. This product can only be used in R&D (by a technically qualified individual) of FDA regulated applications.

**EUROPE EINECS:** All components in this product are listed on EINECS.

**CANADA DOMESTIC SUBSTANCES LIST (DSL):** All components of this product are listed on the Canadian DSL or NDSL.

**AUSTRALIA AICS:** A component in this product is not listed on AICS. This product can only be used in R&D (by a technically qualified individual) or FDA regulated applications.

**EU EINECS:** A component in this product is not listed on EINECS. This product can only be used in R&D applications.

**CANADA DOMESTIC SUBSTANCES LIST (DSL):** A component in this product is not listed on the Canadian DSL. This product can only be used in R&D applications.

**AUSTRALIA AICS:** A component in this product is not listed on AICS. This product can only be used in R&D applications.

**KOREA ECL:** One or more components in this product are not listed on the Korean Existing Chemicals Inventory (KECI). This product can only be used in R&D applications.

**JAPAN MITI (ENCS):** All components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) chemical inventory.

**PHILIPPINES PICCS:** One or more components in this product are not listed on the Philippines Inventory of Chemical and Chemical Substances 9PICCS).

**SARA TITLE III:**

**SARA (311, 312) Hazard Class:**

Acute Health Hazard

**SARA (313) Chemicals:**

Not listed.

**SARA Extremely Hazardous Substance:**

Not listed.

**CERCLA Hazardous Substance:**

Not listed.

**CANADA REGULATIONS (WHMIS):** Not Controlled.

## **16. OTHER INFORMATION**

**The following has been revised since the last issue of this MSDS:**

No Revisions – Original ZaCh System Corporation issue.

**Previous revision date:** N/A

**Previous edition number:** N/A

**NA = Not Available**

CAP 6162 soln



# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 2-Biphenyl isocyanate in Toluene

**Manufacturer Name:**  
ZaCh System Corporation  
914 So. 16th Street  
La Porte, Texas  
USA

**Emergency Telephone:**  
+1 866-393-3306 (24hr.)

**Non-emergency Telephone:**  
+1 281-842-0201

**Intended Use:** Pharmaceutical Intermediate

**Contact Person:**  
E-mail: Ron.Smith@ZambonGroup.com

## 2 HAZARDS IDENTIFICATION

### Emergency Overview

**Physical State:** Viscous Liquid

**Color:** Dark brown

**Odor:** Odorless

### **WARNING!**

Harmful if inhaled, absorbed through skin, or swallowed. Causes skin, eye and respiratory tract irritation. May adversely affect the developing fetus based on animal data. The toxicological properties of this material have not been fully investigated.

### Potential Health Effects

**Inhalation:** Harmful if inhaled. Causes respiratory tract irritation. At high concentrations, isocyanates affect mucous membranes of the respiratory tract and may lead to fatal pulmonary edema. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

**Eye Contact:** Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

**Skin Contact:** Harmful if absorbed through skin. Causes skin irritation. May cause allergic skin disorders in sensitive individuals.

**Ingestion:** Harmful if swallowed.

**Chronic Health Effects:** May cause harm to the unborn child. Contains non-volatile isocyanate. When heated, vapors are formed which may irritate the respiratory system and cause coughing, asthmatic

breathing and breathlessness. Frequent inhalation of vapors may cause development of respiratory allergy to isocyanates. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain. Effects may be delayed. Chronic overexposure to isocyanates has been reported to cause lung damage, including decreased lung function, which may be permanent.

**Target Organ(s):** | Eye | Skin | Respiratory system | Lung | Central nervous system | Reproductive system |

**Potential Physical / Chemical Effects:** This product is not flammable.

**OSHA Regulatory Status:** This product is hazardous according to OSHA 29CFR 1910.1200.

**Environment:** The product contains a substance which has a photochemical ozone creation potential.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**General Information:** The product contains: Non-volatile prepolymeric isocyanate.

Chemical Name	CAS-No.	Concentration*
†2-Biphenyl isocyanate	17337-13-2	75 - 100%
†Toluene	108-88-3	0 - 25%

\* All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA criteria.

### 4 FIRST AID MEASURES

**Inhalation:** Move injured person into fresh air and keep person calm under observation. In case of persistent throat irritation or coughing seek medical attention and take along these instructions. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

**Eye Contact:** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

**Ingestion:** Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media:** None.

**Special Fire Fighting Procedures:** Use standard firefighting procedures and consider the hazards of other involved materials.

**Unusual Fire & Explosion Hazards:** In case of fire, very toxic gases/vapors (e.g. NO<sub>x</sub>, isocyanates) may be formed.

**Hazardous Combustion Products:** Carbon Oxides, Hydrogen Cyanide, Nitrogen Oxides

**Protective Measures:** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Flammability Class:** NFPA Rating Fire = 1. Materials that must be preheated before ignition can occur.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid inhalation of vapors/spray and contact with skin and eyes. Wear suitable protective clothing. Change contaminated clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Spill Cleanup Methods:** Absorb in vermiculite, dry sand or earth and place into containers. Cover spilled material and adsorbant with neutralization solution (50% monoethanolamine / 50% water). Allow the solution to react for a minimum of 15 minutes. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container. For waste disposal, see section 13 of the MSDS.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

## 7 HANDLING AND STORAGE

**Handling:** Use only in well-ventilated areas. Avoid contact with eyes, skin, and clothing. Avoid breathing mists or vapors. Do not eat, drink or smoke when using the product. Work practice should minimize contact. Technical aids: Use disposable equipment (rags, brushes, spatulas, putty knives, etc.), if possible. Change contaminated clothing. Mix and prepare in a place with efficient exhaust ventilation. Observe good industrial hygiene practices.

**Storage:** Keep container in a well-ventilated place. Store in a dry place. Do not add water to a closed container since the reaction may result in violent rupture of the container. Store away from incompatible materials.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Toluene	US. ACGIH TLV	TWA	20 ppm	
Toluene	US. NIOSH Guide	IDLH	500 ppm	
Toluene	US. OSHA Z-2 PEL	TWA	200 ppm	
Toluene	US. OSHA Z-2 PEL	Ceiling	300 ppm	
Toluene	US. OSHA Z-2 PEL	Maximum concentration	500 ppm	

**Engineering Controls:** Provide adequate ventilation. An eye wash bottle must be available at the work site. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Eye Protection:** Wear approved safety goggles.

**Hand Protection:** Wear protective gloves. Use disposable gloves protecting against isocyanates along with cotton gloves closest to the skin. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

**Skin Protection:** Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental Exposure Controls:** Environmental manager must be informed of all major spillages.

9	PHYSICAL AND CHEMICAL PROPERTIES
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**Color:** Dark brown

**Odor:** Odorless

**Odor Threshold:** No data available.

**Physical State:** Viscous Liquid

**pH:** Not applicable

**Melting Point:** No data available.

**Freezing Point:** No data available.

**Boiling Point:** 92°C (198°F) - 94°C (201°F) @ 1 mmHg

**Flash Point:** 113°C (235°F) (Closed Cup)

**Evaporation Rate:** No data available.

**Flammability Limit - Upper (%):** No data available.

**Flammability Limit - Lower (%):** No data available.

**Vapor Pressure:** No data available.

**Vapor Density (Air=1):** No data available.

**Specific Gravity:** 1.138

**Solubility in Water:** Insoluble

**Solubility (Other):** No data available.

**Partition Coefficient (n-Octanol/water):** No data available.

**Autoignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**Bulk Density:** 9.5 ppg

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** Stable under normal temperature conditions

**Conditions to Avoid:** High temperatures. Water, moisture. Reacts with moisture to liberate HCN.

**Incompatible Materials:** Strong oxidizing agents. Amines. Strong bases. Alcohols.

**Hazardous Decomposition Products:**

At Elevated Temperatures:	Carbon Oxides, Hydrogen Cyanide, Isocyanates, Nitrogen Oxides
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**Possibility of Hazardous Reactions:** Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**General Information:** The toxicological properties of this material have not been fully investigated.

**Specified Substance(s)**

**Acute Toxicity:**

Chemical Name	Test Results
Toluene	Inhalation LC50 (4 hour(s), Rat): 12.5-28.8 mg/m <sup>3</sup>
Toluene	Oral LD50 (Rat): 636 mg/kg

**Listed Carcinogens:**

Chemical Name	IARC	NTP	OSHA	ACGIH
Toluene	3	Not Listed	Not Listed	A4

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

**Product Information**

**Acute Toxicity:**

**Test Results:** No test data available for the product.

**Other Acute:** Harmful if inhaled, absorbed through skin, or swallowed. Causes skin, eye and respiratory tract irritation.

**Chronic Toxicity:** May cause harm to the unborn child. Contains non-volatile isocyanate. When heated, vapors are formed which may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. Frequent inhalation of vapors may cause development of respiratory allergy to isocyanates. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain. Effects may be delayed. Chronic overexposure to isocyanates has been reported to cause lung damage, including decreased lung function, which may be permanent.

<b>12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Mobility:** No data available.

**Persistence and Degradability:** No data available.

**Bioaccumulation Potential:** No data available.

**Other Adverse Effects:** The product contains a substance which has a photochemical ozone creation potential.

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**General Information:** Dispose of waste and residues in accordance with local authority requirements.

**Disposal Methods:** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Collect in marked containers and deliver to approved depot.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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**DOT**

**UN No.:** UN3080

**Proper Shipping Name:** Isocyanate solution, toxic, flammable, n.o.s. (2-Biphenyl Isocyanate in Toluene)

**Class:** 6.1 (3)

**Packing Group:** II

**Label(s):** 6.1 (3)

**IATA**

**UN No.:** UN3080

**Proper Shipping Name:** Isocyanate solution, toxic, flammable, n.o.s. (2-Biphenyl Isocyanate in Toluene)

**Class:** 6.1 (3)

**Packing Group:** II

**Label(s):** Toxic, Flammable

**IMDG**

**UN No.:** UN3080

**Proper Shipping Name:** Isocyanate solution, toxic, flammable, n.o.s. (2-Biphenyl Isocyanate in Toluene)

**Class:** 6.1 (3)

**Packing Group:** II

**EmS No.:** F-E, S-D

<b>15</b>	<b>REGULATORY INFORMATION</b>
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**Inventory Status**

**This product or all components are listed or exempt from listing on the following inventory:** TSCA

**US Regulations****CERCLA Hazardous Substance List (40 CFR 302.4):**

Chemical Name	RQ
Toluene	1000 lbs

**SARA Title III****Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** Not regulated.**Section 311/312 (40 CFR 370):**☒ Acute (Immediate)    ☒ Chronic (Delayed)    ☐ Fire    ☒ Reactive    ☐ Pressure Generating**Section 313 Toxic Release Inventory (40 CFR 372):**

Chemical Name	CAS-No.	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Toluene	108-88-3	10000 lbs	25000 lbs

For reporting purposes: the De Minimis Concentration for a toxic chemical in a mixture is 0.1% for carcinogens as defined in 29 CFR 1910.1200(d)(4) or 1% for others.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

Not regulated.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Toluene**Drug Enforcement Act:****Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)):** Toluene**TSCA****TSCA Section 4(a) Final Test Rules & Testing Consent Orders:** Not regulated.**TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E):** Not regulated.**TSCA Section 5(e) PMN-Substance Consent Orders:** Not regulated.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.**State Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Toluene**Massachusetts Right-To-Know List:** Toluene**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** Toluene**Minnesota Hazardous Substances List:** Toluene

**New Jersey Right-To-Know List:** Toluene

**Pennsylvania Right-To-Know List:** Toluene

**Rhode Island Right-To-Know List:** Toluene

<b>16</b>	<b>OTHER INFORMATION</b>
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**HAZARD RATINGS**

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	2	1	1	--

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	2*	1	1	G

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe \*- Chronic Health Effect

Personal Protection codes: G - Safety Glasses, Gloves, Vapor Respirator

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

**Issue Date:** 20-Jan-2009

**Supersedes Date:**

**SDS No.:** 1024005

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

## TCEQ STEERS Waste Code Information

Page 1 of 1



<a href="#">STEERS Home</a>	<a href="#">Help</a>	<a href="#">Contact Us</a>	<a href="#">Logout</a>			
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14:34

**View Waste Code with Submitted Changes: 0113203H****Facility SWR #: 88429    Data current as of: 05/04/2009****Texas Waste Code:** 0113203H**Company Waste** ACETIC ANHYDRIDE**Description:****Origin Code:** 1 - Generated on-site from a product process or service activity**New Chemical N****Substance:****Management Location:** 1 - On-site**Management Units:** 001 002

\*Recent changes to your cross references will be reflected here. To view your copy of record, please search the [submit log](#).

**Status:** Active**Recycled:** Y (Click button below to view)**Description:** Out of Date/Off Spec Acetic Anhydride Solution**For Hazardous Wastes Only:****NAICS Code:** 325411 - Medicinal and Botanical Manufacturing**Measurement Point:** 1 - Before any mixing of hazardous waste streams**Source Code:** G11 - Discarding off-specification or out-of-date chemicals or products**EPA Form Code:** W203 - Concentrated non-halogenated (e.g., non-chlorinated) solvent**System Type Codes:****Mixed with Radioactive N****Waste:****EPA Codes:** D001 D002

This record has been submitted to the TCEQ. No additional changes can be made to this waste code information until these changes appear in the official TCEQ data on this web site.

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## TCEQ STEERS Waste Code Information

Page 1 of 1



<a href="#">STEERS Home</a>	<a href="#">Help</a>	<a href="#">Contact Us</a>	<a href="#">Logout</a>			
<a href="#">Facility</a>	<a href="#">Contacts</a>	<a href="#">Billing</a>	<a href="#">Wastes</a>	<a href="#">Units</a>	<a href="#">APF</a>	<a href="#">AWS</a>



14:55

**View Waste Code with Submitted Changes: 0115203H****Facility SWR #: 88429    Data current as of: 05/04/2009****Texas Waste Code:** 0115203H**Company Waste** ORGANIC SOLVENTS NH**Description:****Origin Code:** 1 - Generated on-site from a product process or service activity**New Chemical N****Substance:****Management Location:** 1 - On-site**Management Units:** 001 002

\*Recent changes to your cross references will be reflected here. To view your copy of record, please search the [submit log](#).

**Status:** Active**Recycled:** N**Description:** Out of Date/Off Spec Organic Solvents (Isopropanol, diisopropyl ether, dibutyl ether, etc.)**For Hazardous Wastes Only:****NAICS Code:** 325411 - Medicinal and Botanical Manufacturing**Measurement Point:** 1 - Before any mixing of hazardous waste streams**Source Code:** G11 - Discarding off-specification or out-of-date chemicals or products**EPA Form Code:** W203 - Concentrated non-halogenated (e.g., non-chlorinated) solvent**System Type Codes:****Mixed with Radioactive N****Waste:****EPA Codes:** D001

This record has been submitted to the TCEQ. No additional changes can be made to this waste code information until these changes appear in the official TCEQ data on this web site.

[List Wastes](#)

## TCEQ STEERS Waste Code Information

Page 1 of 1



<a href="#">STEERS Home</a>	<a href="#">Help</a>	<a href="#">Contact Us</a>	<a href="#">Logout</a>			
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14:51

**View Waste Code with Submitted Changes: 0114203H****Facility SWR #: 88429    Data current as of: 05/04/2009****Texas Waste Code:** 0114203H**Company Waste** TRIETHYLAMINE**Description:****Origin Code:** 1 - Generated on-site from a product process or service activity**New Chemical N****Substance:****Management Location:** 1 - On-site**Management Units:** 001 002

\*Recent changes to your cross references will be reflected here. To view your copy of record, please search the [submit log](#).

**Status:** Active**Recycled:** N**Description:** Out of Date/Off Spec Triethylamine**For Hazardous Wastes Only:****NAICS Code:** 325411 - Medicinal and Botanical Manufacturing**Measurement Point:** 1 - Before any mixing of hazardous waste streams**Source Code:** G11 - Discarding off-specification or out-of-date chemicals or products**EPA Form Code:** W203 - Concentrated non-halogenated (e.g., non-chlorinated) solvent**System Type Codes:****Mixed with Radioactive N****Waste:****EPA Codes:** D001 U404

This record has been submitted to the TCEQ. No additional changes can be made to this waste code information until these changes appear in the official TCEQ data on this web site.

[List Wastes](#)

## TCEQ STEERS Waste Code Information

Page 1 of 1



<a href="#">STEERS Home</a>	<a href="#">Help</a>	<a href="#">Contact Us</a>	<a href="#">Logout</a>			
<a href="#">Facility</a>	<a href="#">Contacts</a>	<a href="#">Billing</a>	<a href="#">Wastes</a>	<a href="#">Units</a>	<a href="#">APF</a>	<a href="#">AWS</a>



14:55

**View Waste Code with Submitted Changes: 0116219H****Facility SWR #: 88429    Data current as of: 05/04/2009****Texas Waste Code: 0116219H****Company Waste MORPHOLINE****Description:****Origin Code: 1** - Generated on-site from a product process or service activity**New Chemical N****Substance:****Management Location: 1** - On-site**Management Units: 001 002**

\*Recent changes to your cross references will be reflected here. To view your copy of record, please search the [submit log](#).

**Status: Active****Recycled: N****Description: Out of date/out of spec material****For Hazardous Wastes Only:****NAICS Code: 325411** - Medicinal and Botanical Manufacturing**Measurement Point: 1** - Before any mixing of hazardous waste streams**Source Code: G11** - Discarding off-specification or out-of-date chemicals or products**EPA Form Code: W219** - Other organic liquid**System Type Codes:****Mixed with Radioactive N****Waste:****EPA Codes: D002**

This record has been submitted to the TCEQ. No additional changes can be made to this waste code information until these changes appear in the official TCEQ data on this web site.

[List Wastes](#)

## TCEQ STEERS Waste Code Information

Page 1 of 1

[STEERS Home](#)[Help](#)[Contact Us](#)[Logout](#)[Facility](#)[Contacts](#)[Billing](#)[Wastes](#)[Units](#)[APF](#)[AWS](#)**STEERS**

14:48

**View Waste Code with Submitted Changes: 0118407H****Facility SWR #: 88429    Data current as of: 05/04/2009****Texas Waste Code:** 0118407H**Company Waste** PNPCF**Description:****Origin Code:** 1 - Generated on-site from a product process or service activity**New Chemical** N**Substance:****Management Location:** 1 - On-site**Management Units:** 001 002

\*Recent changes to your cross references will be reflected here. To view your copy of record, please search the [submit log](#).

**Status:** Active**Recycled:** N**Description:** Para nitrophenyl chloroformate 90%, Bis-4-nitrophenyl carbonate 9%, 4-paraphenol 3%**For Hazardous Wastes Only:****NAICS Code:** 325411 - Medicinal and Botanical Manufacturing**Measurement Point:** 1 - Before any mixing of hazardous waste streams**Source Code:** G11 - Discarding off-specification or out-of-date chemicals or products**EPA Form Code:** W409 - Other organic solids**System Type Codes:****Mixed with Radioactive** N**Waste:****EPA Codes:** D002 D003

This record has been submitted to the TCEQ. No additional changes can be made to this waste code information until these changes appear in the official TCEQ data on this web site.

[List Wastes](#)

## TCEQ STEERS Waste Code Information

Page 1 of 1



<a href="#">STEERS Home</a>	<a href="#">Help</a>	<a href="#">Contact Us</a>	<a href="#">Logout</a>			
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**STEERS**

14:40

**View Waste Code with Submitted Changes: 0117106H****Facility SWR #: 88429    Data current as of: 05/04/2009****Texas Waste Code:** 0117106H**Company Waste** POTASSIUM HYDROXIDE**Description:****Origin Code:** 1 - Generated on-site from a product process or service activity**New Chemical** N**Substance:****Management Location:** 1 - On-site**Management Units:** 001 002

\*Recent changes to your cross references will be reflected here. To view your copy of record, please search the [submit log](#).

**Status:** Active**Recycled:** N**Description:** Known as CIP100 (20% potassium hydroxide, 3% Terasodium EDTA, 70% water) Out of date/out of spec**For Hazardous Wastes Only:****NAICS Code:** 325411 - Medicinal and Botanical Manufacturing**Measurement Point:** 1 - Before any mixing of hazardous waste streams**Source Code:** G11 - Discarding off-specification or out-of-date chemicals or products**EPA Form Code:** W110 - Caustic aqueous waste without cyanides**System Type Codes:****Mixed with Radioactive** N**Waste:****EPA Codes:** D002

This record has been submitted to the TCEQ. No additional changes can be made to this waste code information until these changes appear in the official TCEQ data on this web site.

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# USEcology

an American Ecology company

☐ US Ecology Nevada (Beatty) Fax (775) 553-2125  
☐ US Ecology Texas (Robstown) Fax (361) 387-0794  
☐ US Ecology Idaho (Grand View) Fax (208) 834-2919

Profile #: 09-006-5229**A. CUSTOMER INFORMATION**\*Waste as shipped will be: ☐ Industrial ☐ NON - Industrial \*(Texas customers only)Generator: Zach Systems Corp.Facility Address: 914 South 16th Street  
(No PO Box)Mailing Address: 914 South 16th StreetCity/State/Zip: La Porte, TX 77571Technical Contact: Ron SmithPhone: (713) 725-7499 Fax: (281) 867-1734☐ Check if Billing is SameBilling Company: CES Environmental Services, Inc.Billing Address: 4904 GriggsCity/State/Zip: Houston, TX 77021Billing Contact: Joy BakerPhone No.: 713-676-1460 Fax No.: 713-676-1676Email: jbaker@cesenvironmental.comNAICS#                      ☐ CESQG ☐ SQG ☒ LQG EPA ID TXR000079062 State ID# 88429**B. SHIPPING INFORMATION**1. US DOT Shipping Name Waste Corrosive Solid, Toxic, N.O.S. 2. Hazard Class 83. UN/NA # UN2923 4. Packaging Group II 5. RQ 1006. Container Type: ☐ Bulk ☐ Totes ☐ Pallet Size 55 gallon 7. Frequency: ☐ Year ☒ QTR ☐ Month☐ Boxes ☐ Bags ☒ Drums ☐ Other                      Quantity 1 ☐ 1 Time ☐ Other                     **C. GENERAL MATERIAL & REGULATORY INFORMATION**1. Common name for this waste Morpholine2. Process generating the material out of date of spec product drum

(include additional sheets as necessary)

3. Describe Physical Appearance of Waste Clear colorless solid4. Describe odor of waste: ☒ None ☐ Slight ☐ Strong Describe:                     5. Knowledge is from: ☐ Lab Analysis ☒ MSDS ☐ Process/Generator knowledge ☐ Other (specify)                     ☒ Yes ☐ No Is the material <500 PPMW VOC as generated☒ Yes ☐ No Is the waste restricted under EPA Land Disposal Restrictions☐ Yes ☒ No Waste Subject to Benzene NESHAP regulations (40 CFR 268), if yes please complete LDR form☒ Yes ☐ No State waste codes 0116 2194 \* LDR treatment sub-category ☐ Wastewater ☒ Non-wastewater☐ Yes ☒ No CERCLA Regulated (Superfund) Waste ☐ Yes ☒ No Exempt Waste: If yes, list ref. 40 CFR☒ Yes ☐ No EPA Haz. Waste (list codes) D002 ☐ Yes ☒ No Contains UHCs/Constituents of Concern: List in section D☐ Yes ☒ No Has the waste been treated after the initial point of generation?☐ Yes ☒ No Subpart XX☐ Yes ☒ No Alternative standards for Soil?Source Code G 11 Form Code W 219 Mgt. Method H                     **D. MATERIAL COMPOSITION (Physical/Chemical)**(Range Total > or = 100%) Values are ☒ TCLP ☐ TOTALS

(include additional sheets as necessary) typical value unit range

4-(2-aminoethyl) - Morpholine 100%                     **E. Does the waste exhibit or contain the following:**☐ Yes ☒ No Oxidizer☐ Yes ☒ No React. Sulfides                      ppm☐ Yes ☒ No Explosive☐ Yes ☒ No React. Cyanides                      ppm☐ Yes ☒ No Organic Peroxide☐ Yes ☒ No Water/Air (Pyrophoric) React.☐ Yes ☒ No Shock Sensitive☐ Yes ☒ No Thermally Unstable☐ Yes ☒ No Tires☐ Yes ☒ No TSCA Regulated PCB Waste☐ Yes ☒ No Pyrophoric☐ Yes ☒ No Regulated Medical/Infectious Waste☐ Yes ☒ No Radioactive\*\*☐ Yes ☒ No Compressed Gasses☐ Yes ☒ No Exempt RAD\*\*

\*\*Additional Radiological info is provided in USEC's WAC Addendum

☐ Yes ☒ No Halogenated Organic Compounds? (per 40 CFR 268, Appendix III)**F. PHYSICAL CHARACTERISTICS**1. Flash Po                      °F (if <140°F, 2. Typical pH: 1.9 pH Range: ☒ ≤ 2☐ Yes ☒ No Possibility of incidental liquids from transportation? ☐ >2, <12.50☐ Yes ☒ No Does waste pass the EPA specified paint filter test? ☐ ≥ 12.5**G. GENERATOR'S CERTIFICATION:**☐ Yes ☒ No I certify this material may be disposed of without further treatment.

Certification Statement: I certify under penalty of law that I am familiar with this waste stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, and that all known or suspected hazards have been disclosed.

Furthermore, I certify that this form was completed in accordance with the instructions provided.

Signature: Ronald SmithPrint Name: RONALD SMITHTitle: EHS MANAGERDate: 5/5/09

Facility use only

First review                     Second review                     Final review:                     Date approved:                     Date Denied:

# Material Safety Data Sheet

## 4-(2-Aminoethyl)morpholine, 99% (GC)

ACC# 35562

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 4-(2-Aminoethyl)morpholine, 99% (GC)**Catalog Numbers:** AC400750000, AC400750050, AC400751000**Synonyms:** N-2-Aminoethylmorpholine; 4-Morpholineethanamine.**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01**For emergencies in the US, call CHEMTREC:** 800-424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
2038-03-1	4-(2-aminoethyl)-Morpholine	97	218-011-6

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

**Appearance:** clear, colorless solid or liquid.**Danger!** Corrosive. Causes eye and skin burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.**Target Organs:** No data found.**Potential Health Effects****Eye:** Causes eye burns. May cause chemical conjunctivitis and corneal damage.**Skin:** Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.**Ingestion:** May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause systemic effects.**Inhalation:** Causes chemical burns to the respiratory tract. Aspiration may lead to pulmonary edema. May cause systemic effects.**Chronic:** Effects may be delayed.

### Section 4 - First Aid Measures

**Eyes:** Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.

Extensive irrigation with water is required (at least 30 minutes).

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15

minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.

**Flash Point:** 175 deg C ( 347.00 deg F)

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 2; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Remove all sources of ignition. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes.

**Storage:** Store in a cool, dry place. Keep container closed when not in use. Corrosives area.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations

low.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
4-(2-aminoethyl)-Morpholine	none listed	none listed	none listed

**OSHA Vacated PELs:** 4-(2-aminoethyl)-Morpholine: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid or liquid

**Appearance:** clear, colorless

**Odor:** none reported

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** 4.49

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** 205 deg C

**Freezing/Melting Point:** 24 deg C

**Decomposition Temperature:** Not available.

**Solubility:** soluble

**Specific Gravity/Density:** .9920g/cm<sup>3</sup>

**Molecular Formula:** C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O

**Molecular Weight:** 130.19

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, strong oxidants.

**Incompatibilities with Other Materials:** Strong acids, strong oxidizing agents.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 2038-03-1: QD7350000

**LD50/LC50:**

CAS# 2038-03-1:

Dermal, guinea pig: LD50 = 300 uL/kg;  
 Draize test, rabbit, eye: 50 ug/24H Severe;  
 Draize test, rabbit, skin: 5 mg/24H Severe;  
 Oral, rat: LD50 = 3 gm/kg;

**Carcinogenicity:**

CAS# 2038-03-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information found

**Teratogenicity:** No information found

**Reproductive Effects:** No information found

**Mutagenicity:** No information found

**Neurotoxicity:** No information found

**Other Studies:**

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	CORROSIVE SOLIDS, TOXIC, N.O.S.	No information available.
<b>Hazard Class:</b>	8	
<b>UN Number:</b>	UN2923	
<b>Packing Group:</b>	II	

## Section 15 - Regulatory Information

### US FEDERAL

**TSCA**

CAS# 2038-03-1 is listed on the TSCA inventory.

**Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

**Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 2038-03-1 can be found on the following state right to know lists: Pennsylvania, Massachusetts.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

C

**Risk Phrases:**

R 34 Causes burns.

**Safety Phrases:**

S 25 Avoid contact with eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WGK (Water Danger/Protection)**

CAS# 2038-03-1: 1

**Canada - DSL/NDSL**

CAS# 2038-03-1 is listed on Canada's NDSL List.

**Canada - WHMIS**

This product has a WHMIS classification of E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

## Section 16 - Additional Information

**MSDS Creation Date:** 9/02/1997

**Revision #7 Date:** 11/20/2008

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*

Zach Surplus Inventory

metal drums { 1- 55 gal steel drum Isopropyl ether (cas # 108-20-3)  
rec'd date: 2007-08-11  
~ 1/2 partial drum: dicyclohexylamine 101-83-7  
Batch # 333120, Air products

fiberboard drum - 30 gal, degussa d-tert-leucine mfg date 9/2006  
~~173.6~~ triethylamine  
Batch # 303307, air products  
best. used by 7/2008

metal drums { 1/1 full drum ↑  
poly drums { ~~PPF~~ Peridone Pure Mother Lignor lot # 2-0805-9728-00  
# 29 (waste pack)

metal drum { 1/1 N-Butyl ether (NBET) CAS # 142-96-1  
degussa, lot # 2-0604-8651-00  
rec'd date 2006-04-11

8+ { 8+8+6: 25 kg poly drums  
+8 lot. 2-0809-0011-00 PNPCF - (para nitro phenyl chloroformate)  
lot 2-0803-0093-00 made by PPG for Zach  
lot 2-0802-9849-00  
2-0802-9850-00 2-0802-9807-00  
2-0802-9806-00 2-0719-8451-00  
lot # 06209297 VP

metal 55 gal drum { 1/1 BASF - Lupragen N105 - N-methylmorpholine  
1/1 Ferro - 1,4-dioxane 25ppm  
lot # 2-0705-5585-00, heptane, rec'd date 2007-06-17

Poly drums { CIP 100, Steris, 2/3 drum  
(4+1) Acetic Anhydride, product # 655111, Univar 99%  
Fusca  
Methane Sulfonic Acid Anhydrous, Arkema  
(1/1) (2/3 full) lot # 090106 M

degraded/  
out-of-date  
containers (on waste pad)  
SCA-NCA: ~20-24 drums  
~50 kg/drum

VE 3232 concentrate  
Venlafaxine hcl liq. form  
~50 drums - some CoA

1 25kg polydrum Potassium Carbonate, PPG

lot: 2-0704-4959-00

(III)(IIII) ~20 gal Chemtrade Logistics Virtex-D, sodium dithionite blend

(5.5 pallets) univar PC 343000

Ammonium Chloride 50# Bags x 49 bags / Pallet

(II) Potassium Carbonate CAS# 584-08-7 lot# MY7089-2

Armand Products Co. (53# ea)

Z-Valine - pelleted and sample packs in CY. box

CDI: N,N' Carbonyl diimidazole - made at PPG

lot 2-0511-5857-00

2-0803-9412-00

2-0511-5856-00

2-0511-6202-00

2-0607-0503-00

25kg  
poly  
drums

metal  
drum

N-(2-Amino ethyl)morpholin, lot# 9923277560, BASF

→ 3: Isopropyl Alcohol 99% anhydrous 355 lbs ea., lot# HS054860203

→ Activated Carbon, 50# Bags ~ 1/2 pallet (~ 15 bags)

3- Virgin trailers of

Acetic Acid w/ <10ppm DMSO??

Surplus

Stream profile approval -

Rm:

MSDS for Stream 3

CoAs on CDI, PNPCF

## Drum Profile List

Profile #	Process Facility	Apr/Rej Date	Expire Date	Rec. Code	Customer	Generator	Cust Waste Name	Proper U.S DOT Shipping N
					ZaCh System Corp. (La Porte)			
✓ 3303	HOU	04/29/09	04/29/11 OS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Potassium Carbonate	Non-RCRA/Non-DOT Regulatec
3302	HOU	04/29/09	04/29/11 IS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Ammonium Chloride	Non-RCRA/Non-DOT Regulatec
✓ 3300	HOU	04/28/09	04/28/11 Product		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Activated Carbon	Carbon, Activated
✓ 3290	HOU	04/24/09	04/24/11 OS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Z Valine	Non-RCRA/Non-DOT Regulatec
✓ 3289	HOU	04/24/09	04/24/11 OS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Waste CDI	Non-RCRA/Non-DOT Regulatec
3283	HOU	04/22/09	04/22/11 Rec		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Solvent Product (Stream 3)	Flammable liquid, toxic, n.o.s.
3239	HOU	03/23/09	03/23/11 OS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Oily rags and debris	Non-RCRA/Non-DOT Regulatec (oily rags and debris)
2978	HOU	09/04/08	09/04/10 Hazardous		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Hazardous NMP Step 5 First and Second Repulping	Waste flammable liquids, corrosive, n.o.s., (sodium hydroxide, Methanol)
2927	HOU	08/13/08	08/13/10 Rec		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Empty Drums	Empty Drum
2892	HOU	07/16/08	07/16/10 OL		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	NMP Step 5 First and Second Repulping	Non-RCRA/Non DOT regulated wastewater (per 49 CFR 173.15)
2880		07/09/08	07/09/10 Hazardous		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Haz Off Spec Material	UN1993, Flammable Liquids, n.o.s. II (RQ - MTBE)
2855	HOU	06/20/08	06/20/10 OS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Nonhaz solid / liquid	Non-RCRA/Non-DOT Regulatec
2852	HOU	06/19/08	06/19/10 Hazardous		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	NMP Step 3 and first part of step 4	Waste flammable liquids, n.o.s. heptane)
2663	HOU	03/19/08	03/19/10 Rec		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Recycled oil	Non-DOT Regulated Material (recycled oil)
2662	HOU	03/19/08	03/19/10 IS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	RCRA empty lab containers	Non-RCRA/Non DOT regulated empty bottles)
2661	HOU	03/19/08	03/19/10 OS		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Miscellaneous debris from manufacture of pharmaceutical products	Non-RCRA/Non-DOT Regulatec
2556	HOU	12/19/07	12/19/09 Product		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Stream 3	UN1992, Flammable Liquids, toxic, n.o.s., PG II
2328		09/11/07	09/11/09 Product		ZaCh System Corp. (La Porte)	ZaCh System Corp. (La Porte)	Acetic acid	Acetic acid solution, corrosive, f



Texas Molecular Limited Partnership

## WASTE PROFILE DOCUMENT

TM Deer Park Services LP

2525 Battleground Rd.

P.O. Box 1914

Deer Park, TX 77536

281/930-2525

Fax: 281/930-2535

<b>CUSTOMER INFORMATION:</b>		<b>GENERATOR INFORMATION:</b>	
Company Name <u>CES Environmental Services, INC</u>		Company Name <u>Zach Systems Corp</u>	
Mailing Address <u>4904 Griggs Rd</u>		Physical Address <u>914 South 16th street</u>	
City <u>Houston</u>		City <u>La Porte</u>	
State <u>Texas</u> Zip <u>77021</u>		State <u>TX</u> Zip <u>77571</u>	
Contact <u>Joy Baker</u>		24 Hour Contact <u>281.842.0201</u>	
Phone <u>713.676.1460</u> Fax <u>713.676.1676</u>		24 Hour Phone <u>281.842.0201</u>	
EMAIL <u>baker@cesenvironmental.com</u>			

**WASTE GENERATION DATA:**Waste Name Triethylamine

USEPA ID No.

1X R 0 0 0 0 7 9 0 6 2Describe the process that generates this waste out of spec / out of date product drums

Texas Gen. ID No.

8 8 4 2 9 SIC#

Texas Waste Code

0 1 1 4 2 0 3 HAnnual Volume 12 ☐ lbs ☐ tons ☐ gals ☒ drums/Container Size 55 gallon Shipping Frequency 4 per Quarter**RCRA DATA:**

EPA Hazardous Waste Codes (40 CFR, Part 261, Subpart C &amp; D) If D Codes apply, UHC Form must be included with profile.

Is waste hazardous per RCRA? ☒ Yes ☐ NoD001 U404Is this a characteristically Hazardous Waste or a residue from the treatment of characteristically Hazardous Waste? ☒ Yes-Underlying Constituent Form Att. ☐ No**WASTE PROPERTIES:**(a) pH Range: 2 to 12

(h) Heating Value (BTU/LB or other):

(b) Sp. Gravity .60 to .80(i) Physical State: ☐ Solid ☒ Liquid ☐ Semi-Solid ☐ Other(c) Percent Settled Solids (by vol.): 0 to 0(j) Flash Point: 16 ☒ deg. F ☐ deg. C ☒ Closed Cup ☐ Open Cup(d) Percent Insoluble Organics (by vol.): 0 to 0(k) Phases/Layers: ☒ Single ☐ Bilayered  
☐ Multilayered (Top 0 % Middle 0 % Bottom 0 %)(e) Describe Appearance (e.g. yellow, clear, turbid, etc.): Clear(l) Viscosity: 0 centipoises(f) Odor: ☒ Strong ☐ Mild ☐ None

(m) Dry Weight Factor

(g) Describe Odor (acid, rancid, etc.): ammonia like

Does Waste Contain Any Of The Following?

\* If yes, please indicate concentration under components below.

Benzene NESHAP Regulated		Pathogens		Pyrophoric		TCLP organics *	
Yes	No	Yes	No	Yes	No	Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**COMPONENTS:**

Account for 100% of the waste components.

Triethylamine**RANGE**

(% or PPM)

100 % to**TRI REPORTING**

CAS NO.

121-44-8

AVERAGE

**METALS (TCLP)**

(DESIGNATE CONCENTRATION, PPM)

Arsenic	<u>0</u> ppm	Manganese	<u>0</u> ppm
Barium	<u>0</u> ppm	Mercury	<u>0</u> ppm
Chromium	<u>0</u> ppm	Nickel	<u>0</u> ppm
Cadmium	<u>0</u> ppm	Selenium	<u>0</u> ppm
Copper	<u>0</u> ppm	Silver	<u>0</u> ppm
Lead	<u>0</u> ppm	Thallium	<u>0</u> ppm
		Zinc	<u>0</u> ppm

Waste analysis data attached: ☒ Yes ☐ No Number of Additional Pages 5 Waste Properties determined by: Process Knowledge ☐ Waste Analysis ☒**SHIPPING INFORMATION:** (49 CFR 172.101) Proper DOT Shipping Name: Waste TriethylamineDOT Hazard Class: 3, 8UN/NA Number: UN1296Packing Group: IIReportable Qty.: 5000 pounds

Method of Shipment (s):		Bulk Liquids		Tank Truck		Vacuum Truck		Other:	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Method of Collection: ☐ Underground Tanks ☐ Above Ground Tanks ☐ Sumps ☒ Drums ☐ Other

Required personnel protective equipment &amp; procedures while in your plant:

Full face respirator, chemical suit, and standard ppe

Other comments or hazards including effects on human health in the event of a release:

Ventilate area of release and remove all sources of ignition.

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description of this waste material, its constituents and its known or suspected hazards. I further certify and warrant that this information is the result of an analysis of a representative sample of the waste obtained and analyzed in accordance with testing procedures of the U.S. Environmental Protection Agency or by the application of knowledge or the process generating the waste materials.

SIGNATURE: Ronald E. SmithTITLE: GHS ManagerDATE: 5/6/09

EPAHQ082001630

**TABLE 2**  
**UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)**

Generator Name Zach Systems

Manifest Number \_\_\_\_\_

Waste Stream Name Waste Triethylamine

TM Deer Park Services Limited Partnership WS# \_\_\_\_\_

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Deer Park Services by checking the applicable constituents listed below. You must then complete the TM Deer Park Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES ☒ NO ☐ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<b>I. Organic Constituents</b>			
2-Acetylaminofluorene	53-96-3	0.059	140
4-Aminobiphenyl	92-67-1	0.13	NA
A2213 [6]	30558-43-1	0.042	1.4
Acenaphthene	83-32-9	0.059	3.4
Acenaphthylene	208-96-8	0.059	3.4
Acetone	67-64-1	0.28	160
Acetonitrile	75-05-8	5.6	38
Acetophenone	96-86-2	0.01	9.7
Acrolein	107-02-8	0.29	NA
Acrylamide	79-06-1	19	23
Acrylonitrile	107-13-1	0.24	84
Aldicarb sulfone [6]	1646-88-4	0.056	0.28
Aldrin	309-00-2	0.021	0.066
alpha-BHC	319-84-6	0.00014	0.066
Aniline	62-53-3	0.81	14
Anthracene	120-12-7	0.059	3.4
Aramite	140-57-8	0.36	NA
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
4-Bromophenyl phenyl ether	101-55-3	0.055	15
Barban [6]	101-27-9	0.056	1.4
Bendiocarb [6]	22781-23-3	0.056	1.4
Bendiocarb phenol [6]	22961-82-6	0.056	1.4
Benomyl [6]	17804-35-2	0.056	1.4
Benz(a)anthracene	56-55-3	0.059	3.4
Benzal chloride	98-87-3	0.055	6
Benzene	71-43-2	0.14	10
Benzo(a)pyrene	50-32-8	0.061	3.4
Benzo(b)fluoranthene	205-99-2	0.11	6.8
(difficult to distinguish from benzo(k)fluoranthene)			
Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
Benzo(k)fluoranthene	207-08-9	0.11	6.8
(difficult to distinguish from benzo(b)fluoranthene)			
beta-BHC	319-85-7	0.00014	0.066
bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
bis-(2-Chloroethoxy)methane	111-91-1	0.036	7.2
bis-(2-Chloroethyl)ether	111-44-4	0.033	6
Bromodichloromethane	75-27-4	0.35	15
Bromoform (Tribromomethane)	75-25-2	0.63	15
Bromomethane/Methyl bromide	74-83-9	0.11	15
Butyl benzyl phthalate	85-68-7	0.017	28
Butylate [6]	2008-41-5	0.042	1.4
2-chloro-1,3-butadiene	126-99-8	0.057	0.28
2-Chloroethyl vinyl ether	110-75-8	0.062	NA
2-Chloronaphthalene	91-58-7	0.055	5.6
2-Chlorophenol	95-57-8	0.044	5.7
3-Chloropropylene	107-05-1	0.036	30
Carbaryl [6]	63-25-2	0.006	0.14
Carbenzadim [6]	10605-21-7	0.056	1.4
Carbofuran [6]	1563-66-2	0.006	0.14
<b>I. Organic Constituents (Continued)</b>			

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
Carbofuran phenol [6]	1563-38-8	0.056	1.4
Carbon disulfide	75-15-0	3.8	4.8mg/l
Carbon tetrachloride	56-23-5	0.057	6
Carbosulfan [6]	55285-14-8	0.028	1.4
Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
Chlorobenzene	108-90-7	0.057	6
Chlorobenzilate	510-15-6	0.1	NA
Chlorodibromomethane	124-48-1	0.057	15
Chloroethane	75-00-3	0.27	6
Chloroform	67-66-3	0.046	6
Chloromethane (Methyl chloride)	74-87-3	0.19	30
Chrysene	218-01-9	0.059	3.4
m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
m-Cumenyl methylcarbamate [6]	64-00-6	0.056	1.4
cis-1,3-Dichloropropylene	10061-01-5	0.036	18
Cycloate [6]	1134-23-2	0.042	1.4
Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
1,1-Dichloroethane	75-34-3	0.059	6
1,1-Dichloroethylene	75-35-4	0.025	6
1,2-Dibromo-3-chloropropane	96-12-8	0.11	15
1,2-Dichloroethane	107-06-2	0.21	6
trans-1,2-Dichloroethylene	156-60-5	0.054	30
1,2-Dichloropropane	78-87-5	0.85	18
1,2-Diphenylhydrazine	122-66-7	0.087	NA
trans-1,3-Dichloropropylene	10061-02-6	0.036	18
1,4-Dinitrobenzene	100-25-4	0.32	2.3
1,4-Dioxane	123-91-1	12	170
2,4-Dichlorophenol	120-83-2	0.044	14
2,4-Dichlorophenoxyacetic acid/2,4-D	94-75-7	0.72	10
2,4-Dinitrophenol	51-28-5	0.12	160
2,4-Dinitrotoluene	121-14-2	0.32	140
2,6-Dichlorophenol	87-65-0	0.044	14
2,6-Dinitrotoluene	606-20-2	0.55	28
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	0.72	10
2,4-Dimethyl phenol	105-67-9	0.036	14
4,6-Dinitro-o-cresol	534-52-1	0.28	160
delta-BHC	319-86-8	0.023	0.066
di-n-butyl phthalate	84-74-2	0.057	28
Di-n-octyl phthalate	117-84-0	0.017	28
Di-n-propylnitrosamine	621-64-7	0.4	14
Dibenz(a,e)pyrene	192-65-4	0.061	NA
Dibenz(a,h)anthracene	53-70-3	0.055	8.2
Dibromomethane	74-95-3	0.11	15
Dichlorodifluoromethane	75-71-8	0.23	7.2
Dieldrin	60-57-1	0.017	0.13
Diethyl phthalate	84-66-2	0.2	28
Diethylene glycol, dicarbamate [6]	5952-26-1	0.056	1.4
Dimethyl phthalate	131-11-3	0.047	28
Dimetilan [6]	644-64-4	0.056	1.4
Diphenylamine	122-39-4	0.92	13
(difficult to distinguish from diphenylnitrosamine)			
Methyl isobutyl ketone	108-10-1	0.14	33

**TABLE 2**  
**UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)**

Generator Name Zach System

Manifest Number \_\_\_\_\_

Waste Stream Name WAFB Triethylamine

TM Deer Park Services Limited Partnership WS# \_\_\_\_\_

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Deer Park Services by checking the applicable constituents listed below. You must then complete the TM Deer Park Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES ☐ NO ☐ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/> Diphenylnitrosamine (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
<input type="checkbox"/> Disulfoton	298-04-3	0.017	6.2
<input type="checkbox"/> Dithiocarbamates (total) [6]	137-30-4	0.028	28
<input type="checkbox"/> Endosulfan I	959-98-8	0.023	0.066
<input type="checkbox"/> Endosulfan II	33213-65-9	0.029	0.13
<input type="checkbox"/> Endosulfan sulfate	1031-07-8	0.029	0.13
<input type="checkbox"/> Endrin	72-20-8	0.0028	0.13
<input type="checkbox"/> Endrin aldehyde	7421-93-4	0.025	0.13
<input type="checkbox"/> EPTC [6]	759-94-4	0.042	1.4
<input type="checkbox"/> Ethyl acetate	141-78-6	0.34	33
<input type="checkbox"/> Ethyl benzene	100-41-4	0.057	10
<input type="checkbox"/> Ethyl cyanide/propanenitrile	107-12-0	0.24	360
<input type="checkbox"/> Ethyl ether	60-29-7	0.12	160
<input type="checkbox"/> Ethyl methacrylate	97-63-2	0.14	160
<input type="checkbox"/> Ethyl Oxide	75-21-8	0.12	NA
<input type="checkbox"/> Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
<input type="checkbox"/> Famphur	52-85-7	0.017	15
<input type="checkbox"/> Fluoranthene	206-44-0	0.068	3.4
<input type="checkbox"/> Fluorene	86-73-7	0.059	3.4
<input type="checkbox"/> Formetanate hydrochloride [6]	23422-53-9	0.056	1.4
<input type="checkbox"/> Formparanate [6]	17702-57-7	0.056	1.4
<input type="checkbox"/> gamma-BHC	58-89-9	0.0017	0.066
<input type="checkbox"/> Heptachlor	76-44-8	0.0012	0.066
<input type="checkbox"/> Heptachlor epoxide	1024-57-3	0.016	0.066
<input type="checkbox"/> Hexachlorobenzene	118-74-1	0.055	10
<input type="checkbox"/> Hexachlorobutadiene	87-68-3	0.055	5.6
<input type="checkbox"/> Hexachlorocyclopentadiene	77-47-4	0.057	2.4
<input type="checkbox"/> Hexachloroethane	67-72-1	0.055	30
<input type="checkbox"/> Hexachloropropylene	1888-71-7	0.035	30
<input type="checkbox"/> HxCDDs (All Hexachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/> HxCDFs (All Hexachlorodibenzofurans)	N/A	0.000063	0.001
<input type="checkbox"/> 3-Iodo-2-propenyl n-butylcarbamate [6]	55406-53-6	0.056	1.4
<input type="checkbox"/> Ideno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
<input type="checkbox"/> Iodomethane	74-88-4	0.19	65
<input type="checkbox"/> Isobutyl alcohol	78-83-1	5.6	170
<input type="checkbox"/> Isodrin	465-73-6	0.021	0.066
<input type="checkbox"/> Isolan [6]	119-38-0	0.056	1.4
<input type="checkbox"/> Isosafrole	120-58-1	0.081	2.6
<input type="checkbox"/> Kepone	143-50-0	0.0011	0.13
<input type="checkbox"/> 3-Methylcholanthrene	56-49-5	0.0055	15
<input type="checkbox"/> 4,4-Methylene bis (2-chloroaniline)	101-14-4	0.5	30
<input type="checkbox"/> m-Dichlorobenzene	541-73-1	0.036	6
<input type="checkbox"/> Methacrylonitrile	126-98-7	0.24	84
<input type="checkbox"/> Methanol	67-56-1	5.6	0.75 mg/l TCLP
<input type="checkbox"/> Methiocarb [6]	2032-65-7	0.056	1.4
<input type="checkbox"/> Methomyl [6]	16752-77-5	0.028	0.14
<input type="checkbox"/> Methoxychlor	72-43-5	0.25	0.18
<input type="checkbox"/> Methapyrilene	91-80-5	0.081	1.5
<input type="checkbox"/> Methyl ethyl ketone	78-93-3	0.28	36
<b>I. Organic Constituents (Continued)</b>			
<input type="checkbox"/> Phorate	298-02-2	0.021	4.6

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/> Methyl methacrylate	80-62-6	0.14	160
<input type="checkbox"/> Methyl methansulfonate	66-27-3	0.018	NA
<input type="checkbox"/> Methyl parathion	298-00-0	0.014	4.6
<input type="checkbox"/> Methylene chloride	75-09-2	0.089	30
<input type="checkbox"/> Metolcarb [6]	1129-41-5	0.056	1.4
<input type="checkbox"/> Mexacarbate [6]	315-18-4	0.056	1.4
<input type="checkbox"/> Molinate [6]	2212-67-1	0.042	1.4
<input type="checkbox"/> MxCDDs (All Hexachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/> 2-Naphthylamine	91-59-8	0.52	NA
<input type="checkbox"/> 5-Nitro-o-toluidine	99-55-8	0.32	28
<input type="checkbox"/> n-Butyl alcohol	71-36-3	5.6	2.6
<input type="checkbox"/> N-Nitroso-di-n-butylamine	924-16-3	0.4	17
<input type="checkbox"/> N-Nitrosodiethylamine	55-15-5	0.4	28
<input type="checkbox"/> N-Nitrosodimethylamine	62-75-9	0.4	2.3
<input type="checkbox"/> N-Nitrosomethylethylamine	10595-95-6	0.4	2.3
<input type="checkbox"/> N-Nitrosomorpholine	59-89-2	0.4	2.3
<input type="checkbox"/> N-Nitrosopiperidine	100-75-4	0.013	35
<input type="checkbox"/> N-Nitrosopyrrolidine	930-55-2	0.013	35
<input type="checkbox"/> Naphthalene	91-20-3	0.059	5.6
<input type="checkbox"/> Nitrobenzene	98-95-3	0.068	14
<input type="checkbox"/> o,p-DDD	53-19-0	0.023	0.087
<input type="checkbox"/> o,p-DDE	3424-82-6	0.031	0.087
<input type="checkbox"/> o,p-DDT	789-02-6	0.0039	0.087
<input type="checkbox"/> o-Cresol	95-48-7	0.11	5.6
<input type="checkbox"/> o-Dichlorobenzene	95-50-1	0.088	6
<input type="checkbox"/> o-Nitroaniline	88-74-4	0.27	14
<input type="checkbox"/> o-Nitrophenol	88-75-5	0.028	13
<input type="checkbox"/> Oxamyl [6]	23135-22-0	0.056	0.28
<input type="checkbox"/> o-Phenylenediamine [6]	95-54-5	0.056	5.6
<input type="checkbox"/> p,p-DDD	72-54-8	0.023	0.087
<input type="checkbox"/> p,p-DDE	72-55-9	0.031	0.087
<input type="checkbox"/> p,p-DDT	50-29-3	0.0039	0.087
<input type="checkbox"/> p-Chloro-m-cresol	59-50-7	0.018	14
<input type="checkbox"/> p-Chloroaniline	106-47-8	0.46	16
<input type="checkbox"/> p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
<input type="checkbox"/> p-Dichlorobenzene	106-46-7	0.09	6
<input type="checkbox"/> p-Dimethylaminoazobenzene	60-11-7	0.13	NA
<input type="checkbox"/> p-Nitroaniline	100-01-6	0.028	28
<input type="checkbox"/> p-Nitrophenol	100-02-7	0.12	29
<input type="checkbox"/> Parathion	56-38-2	0.014	4.6
<input type="checkbox"/> Pebulate [6]	1114-71-2	0.042	1.4
<input type="checkbox"/> PeCDDs (All Pentachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/> PeCDFs (All Pentachlorodibenzofurans)	N/A	0.000035	0.001
<input type="checkbox"/> Pentachlorobenzene	608-93-5	0.055	10
<input type="checkbox"/> Pentachloroethane	76-01-7	0.055	6
<input type="checkbox"/> Pentachloronitrobenzene	82-68-8	0.055	4.8
<input type="checkbox"/> Pentachlorophenol	87-86-5	0.089	7.4
<input type="checkbox"/> Phenacetin	62-44-2	0.081	16
<input type="checkbox"/> Phenanthrene	85-01-8	0.059	5.6
<input type="checkbox"/> Phenol	108-95-2	0.039	6.2
<b>II. Inorganic Constituents (Continued)</b>			
<input type="checkbox"/> Beryllium	7440-41-7	0.82 *	1.22 mg/l TCLP

EPAHQ082001632

**TABLE 2**  
**UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)**

Generator Name Zach Systems

Manifest Number \_\_\_\_\_

Waste Stream Name Waste Triethylamine

TM Deer Park Services Limited Partnership WS# \_\_\_\_\_

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Deer Park Services by checking the applicable constituents listed below. You must then complete the TM Deer Park Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES ☒ NO ☐ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

<input checked="" type="checkbox"/>	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/>	Phthalic acid	100-21-0	0.055	28
<input type="checkbox"/>	Phthalic anhydride	85-44-9	0.055	28
<input type="checkbox"/>	Physostigmine [6]	57-47-6	0.056	1.4
<input type="checkbox"/>	Physostigmine salicylate [6]	57-64-7	0.056	1.4
<input type="checkbox"/>	Promecarb [6]	2631-37-0	0.056	1.4
<input type="checkbox"/>	Pronamide	23950-58-5	0.093	1.5
<input type="checkbox"/>	Propam [6]	122-42-9	0.056	1.4
<input type="checkbox"/>	Propoxur [6]	114-26-1	0.056	1.4
<input type="checkbox"/>	Prosulfocarb [6]	52888-80-9	0.042	1.4
<input type="checkbox"/>	Pyrene	129-00-0	0.067	8.2
<input type="checkbox"/>	Pyridine	110-86-1	0.014	16
<input type="checkbox"/>	Safrole	94-59-7	0.081	22
<input type="checkbox"/>	Silvex (2,4,5-TP)	93-72-1	0.72	7.9
<input type="checkbox"/>	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6
<input type="checkbox"/>	1,1,1-Trichloroethane	71-55-6	0.054	6
<input type="checkbox"/>	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6
<input type="checkbox"/>	1,1,2-Trichloro-2,2,2-trifluoroethane	76-13-1	0.057	30
<input type="checkbox"/>	1,1,2-Trichloroethane	79-00-5	0.054	6
<input type="checkbox"/>	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
<input type="checkbox"/>	1,2,4-Trichlorobenzene	120-82-1	0.055	19
<input type="checkbox"/>	1,2,3-Trichloropropane	96-18-4	0.85	30
<input type="checkbox"/>	2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4
<input type="checkbox"/>	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	93-76-5	0.72	7.9
<input type="checkbox"/>	2,4,5-Trichlorophenol	95-95-4	0.18	7.4
<input type="checkbox"/>	2,4,6-Trichlorophenol	88-06-2	0.035	7.4
<input type="checkbox"/>	TCDDs (All Tetrachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/>	TCDFs (All Tetrachlorodibenzofurans)	N/A	0.000063	0.001
<input type="checkbox"/>	Tetrachloroethylene	127-18-4	0.056	6
<input type="checkbox"/>	Thiodicarb [6]	59669-26-0	0.019	1.4
<input type="checkbox"/>	Thiophanate-methyl [6]	23564-05-8	0.056	1.4
<input type="checkbox"/>	Tirpate [6]	26419-73-8	0.056	0.28
<input type="checkbox"/>	Toluene	108-88-3	0.08	10
<input type="checkbox"/>	Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.1	10
<input type="checkbox"/>	Toxaphene	8001-35-2	0.0095	2.6
<input type="checkbox"/>	Triallate [6]	2303-17-8	0.042	1.4
<input type="checkbox"/>	Trichloroethylene	79-01-6	0.054	6
<input checked="" type="checkbox"/>	Trichloromonofluoromethane	75-69-4	0.02	30
<input type="checkbox"/>	Triethylamine [6]	101-44-8	0.081	1.5
<input type="checkbox"/>	tris-(2,3-Dibromopropyl) phosphate	126-72-7	0.11	0.1
<input type="checkbox"/>	Vernolate [6]	1929-77-7	0.042	1.4
<input type="checkbox"/>	Vinyl chloride	75-01-4	0.27	6
<input type="checkbox"/>	Xylenes-mixed isomers	1330-20-7	0.32	30
<input type="checkbox"/>	(sum of o-, m-, and p-xylene concentrations)			

**II. Inorganic Constituents**

<input type="checkbox"/>	Antimony	7440-36-0	1.9 *	1.15 mg/l TCLP
<input type="checkbox"/>	Arsenic	7440-38-2	1.4 *	5.0 mg/l TCLP
<input type="checkbox"/>	Barium	7440-39-3	1.2 *	21.0 mg/l TCLP

<input checked="" type="checkbox"/>	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/>	Cadmium	7440-43-9	0.69 *	0.11 mg/l TCLP
<input type="checkbox"/>	Chromium (Total)	7440-47-3	2.77 *	0.60 mg/l TCLP
<input type="checkbox"/>	Cyanides (Amenable) [4]	57-12-5	0.86	30
<input type="checkbox"/>	Cyanides (Total) [4]	57-12-5	1.2	590
<input type="checkbox"/>	Fluoride [5]	16984-48-8	35	NA
<input type="checkbox"/>	Lead	7439-92-1	0.69 *	0.75 mg/l TCLP
<input type="checkbox"/>	Mercury - All others	7439-97-6	0.15 *	0.025 mg/l TCLP
<input type="checkbox"/>	Mercury - Retort nonwastewater	7439-97-6	NA *	0.20 mg/l TCLP
<input type="checkbox"/>	Nickel	7440-02-0	3.98 *	11.0 mg/l TCLP
<input type="checkbox"/>	Selenium	7782-49-2	0.82 *	5.7 mg/l TCLP
<input type="checkbox"/>	Silver	7440-22-4	0.43 *	0.14 mg/l TCLP
<input type="checkbox"/>	Sulfide	18496-25-8	14	NA
<input type="checkbox"/>	Thallium	7440-28-0	1.4 *	0.2 mg/l TCLP
<input type="checkbox"/>	Vanadium [4]	7440-62-2	4.3 *	1.6 mg/l TCLP
<input type="checkbox"/>	Zinc [5]	7440-66-6	2.61 *	4.3 mg/l TCLP

- [1] CAS: Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- [2] Concentration standards for wastewater's are expressed in mg/l and are based on analysis of composite samples
- [3] Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart O, or 40 CFR part 265, subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for non-wastewaters are based on analysis of grab samples.
- [4] Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- [5] These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at 268.2(i).
- [6] Between August 26, 1997 and August 26, 1998, these constituents are not underlying hazardous constituents as defined at 268.2(i).

[59FR 47982, Sept. 19, 1994; 60 FR 242, Jan. 3, 1995; 61 FR 15566, Apr. 08, 1996; 61 FR]

I certify that the above is true and correct and that the submission of a false or misleading certification can lead to the possibility of fines or imprisonment.

Generator Signature

Date

Updated 11/02

EPAHQ0082001633

# USEcology

an American Ecology company

☐ US Ecology Nevada (Beatty)  
Fax (775) 553-2125  
☐ US Ecology Idaho (Grand View)  
Fax (208) 834-2919

☐ US Ecology Texas (Robstown)  
Fax (361) 387-0794

Profile #: \_\_\_\_\_

**A. CUSTOMER INFORMATION**\*Waste as shipped will be: ☐ Industrial ☐ NON - Industrial \*(Texas customers only)Generator: Zach Systems Corp.Facility Address: 914 South 16th Street  
(No PO Box)Mailing Address: 914 South 16th StreetCity/State/Zip: La Porte, TX 77571Technical Contact: Ron SmithPhone: (713) 725-7499Fax: (281) 867-1734☐ Check if Billing is SameBilling Company: CES Environmental Services, Inc.Billing Address: 4904 GriggsCity/State/Zip: Houston, TX 77021Billing Contact: Joy BakerPhone No.: 713-676-1460Fax No.: 713-676-1676Email: jbaker@cesenvironmental.com

NAICS# \_\_\_\_\_

☐ CESQG☐ SQG☒ LQG

EPA ID \_\_\_\_\_

TXR000079062

State ID# \_\_\_\_\_

88429

**B. SHIPPING INFORMATION**1. US DOT Shipping Name: Waste Corrosive Solid, Toxic, N.O.S. (Para Nitrophenyl chloroformate)2. Hazard Class: 8, 6.13. UN/NA #: UN29234. Packaging Group: II

5. RQ: \_\_\_\_\_

100

6. Container Type: ☐ Bulk ☐ Totes ☐ PalletSize: 55 gallon7. Frequency: ☐ Year☒ QTR☐ Month☐ Boxes ☐ Bags ☒ Drums ☐ OtherQuantity: 38☐ 1 Time ☐ Other**C. GENERAL MATERIAL & REGULATORY INFORMATION**1. Common name for this waste: PNPCF2. Process generating the material: out of date of spec product drum

(include additional sheets as necessary)

3. Describe Physical Appearance of Waste: Clear colorless solid4. Describe odor of waste: ☐ None ☐ Slight ☒ Strong Describe: Pungent5. Knowledge is from: ☐ Lab Analysis ☒ MSDS ☐ Process/Generator knowledge ☐ Other (specify) \_\_\_\_\_☒ Yes ☐ No Is the material <500 PPMW VOC as generated☒ Yes ☐ No Is the waste restricted under EPA Land Disposal Restrictions☐ Yes ☒ No Waste Subject to Benzene NESHAP regulations

(40 CFR 268), if yes please complete LDR form

☒ Yes ☐ No State waste codes0118467H

\* LDR treatment sub-category

☐ Wastewater☒ Non-wastewater☐ Yes ☒ No CERCLA Regulated (Superfund) Waste☐ Yes ☒ No Exempt Waste: If yes, list ref. 40 CFR☒ Yes ☐ No EPA Haz. Waste (list codes)D002D003☐ Yes ☒ No Contains UHCs/Constituents of Concern: List in section D☐ Yes ☒ No Has the waste been treated after the initial point of generation?☐ Yes ☒ No Subpart XX☐ Yes ☒ No Alternative standards for Soil?

Source Code G

11

Form Code W

409

Mgt. Method H

**D. MATERIAL COMPOSITION (Physical/Chemical)**(Range Total > or = 100%) Values are ☒ TCLP ☐ TOTALS

(include additional sheets as necessary)

typical value

unit

range

Para nitrophenyl 90% >90%Bis-4-nitrophenyl carbonate 9% <9%4-nitrophenol 3% <3%**E. Does the waste exhibit or contain the following:**☐ Yes ☒ No Oxidizer☐ Yes ☒ No React. Sulfides ppm☐ Yes ☒ No Explosive☐ Yes ☒ No React. Cyanides ppm☐ Yes ☒ No Organic Peroxide☐ Yes ☒ No Water/Air (Pyrophoric) React.☐ Yes ☒ No Shock Sensitive☐ Yes ☒ No Thermally Unstable☐ Yes ☒ No Tires☐ Yes ☒ No TSCA Regulated PCB Waste☐ Yes ☒ No Pyrophoric☐ Yes ☒ No Regulated Medical/Infectious Waste☐ Yes ☒ No Radioactive\*\*☐ Yes ☒ No Compressed Gasses☐ Yes ☒ No Exempt RAD\*\*

\*\*Additional Radiological info is provided in USEI's WAC Addendum

☐ Yes ☒ No Halogenated Organic Compounds? (per 40 CFR 268, Appendix III)**F. PHYSICAL CHARACTERISTICS**Flash Pt \_\_\_\_\_ °F (if <140°F) 2. Typical pH: 1.9 pH Range: ☒ ≤ 2☐ Yes ☒ No Possibility of incidental liquids from transportation? ☐ >2, <12.50☐ Yes ☒ No Does waste pass the EPA specified paint filter test? ☐ ≥ 12.5**G. GENERATOR'S CERTIFICATION:**☐ Yes ☒ No I certify this material may be disposed of without further treatment.

Certification Statement: I certify under penalty of law that I am familiar with this waste stream through analysis and/or process knowledge, and

that all information provided is true, accurate, representative and complete, and that all known or suspected hazards have been disclosed.

Furthermore, I certify that this form was completed in accordance with the instructions provided.

Print Name: Ronald SmithSignature: Ronald SmithTitle: WHS ManagerDate: 5/5/09

Facility use only

First review

Second review

Final review:

Date approved:

Date Denied:



Texas Molecular Limited Partnership

No TM

## WASTE PROFILE DOCUMENT

TM Deer Park Services LP 2525 Battleground Rd. P.O. Box 1914 Deer Park, TX 77536 281/930-2525 Fax: 281/930-2535

## CUSTOMER INFORMATION:

Company Name CES Environmental Services, INC  
Mailing Address 4904 Griggs Rd  
City Houston  
State Texas Zip 77021  
Contact Joy Baker  
Phone 713.676.1460 Fax 713.676.1676  
EMAIL baker@cesenvironmental.com

## GENERATOR INFORMATION:

Company Name Zach Systems Corp  
Physical Address 914 South 16th street  
City La Porte  
State TX Zip 77571  
24 Hour Contact 281.842.0201  
24 Hour Phone 281.842.0201

## WASTE GENERATION DATA:

Waste Name Waste Acetic AnhydrideUSEPA ID No. TXR000079062Describe the process that generates this waste out of spec / out of dat Texas Gen. ID No. 88429 SIC# 01132034  
product drums Texas Waste Code 01132034Annual Volume 9 ☐ lbs ☐ tons ☐ gals ☒ drums/Container Size 55 gallon Shipping Frequency 9 per year

## RCRA DATA:

EPA Hazardous Waste Codes (40 CFR, Part 261, Subpart C &amp; D) If D Codes apply, UHC Form must be included with profile.

Is waste hazardous per RCRA? ☒ Yes ☐ No D001 D002 D003Is this a characteristically Hazardous Waste or a residue from the treatment of characteristically Hazardous Waste? ☒ Yes-Underlying Constituent Form Att. ☐ No

## WASTE PROPERTIES:

(a) pH Range: 2 to 12  
(b) Sp. Gravity 1.0 to 1.2  
(c) Percent Settled Solids (by vol.):        to         
(d) Percent Insoluble Organics (by vol.):        to         
(e) Describe Appearance (e.g. yellow, clear, turbid, etc.): clear  
(f) Odor: ☒ Strong ☐ Mild ☐ None  
(g) Describe Odor (acidic, rancid, etc.): acetic odor

(h) Heating Value (BTU/LB or other):       

(i) Physical State: ☐ Solid ☒ Liquid ☐ Semi-Solid ☐ Other  
(j) Flash Point: 49 ☐ deg. F ☒ deg. C ☐ Closed Cup ☐ Open Cup  
(k) Phases/layers: ☐ Single ☐ Bilayered  
☐ Multilayered (Top        % Middle        % Bottom        %)  
(l) Viscosity:        centipoises  
(m) Dry Weight Factor       

Does Waste Contain Any Of The Following?

\* If yes, please indicate concentration under components below.

	Yes	No
Benzene NESHAP Regulated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Biological Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Etiological Agents	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Radioactive Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>
OSHA Listed Compounds (29 CFR 1910.1001-1050):	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Yes	No
Pathogens	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Infectious Agents	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Carcinogens	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dioxins	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
Pyrophoric	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfides *	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hydrophoric	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pesticides *	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
TCLP organics *	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PCB's > 50 ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Free Cyanides *	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
TCLP organics *	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PCB's > 50 ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Free Cyanides *	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
TCLP organics *	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PCB's > 50 ppm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Explosives	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Free Cyanides *	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## COMPONENTS:

Account for 100% of the waste components

Component	Range
Acetic Anhydride	100 % to
	to
	to
	to
	to
	to
	to
	to
	to
	to

## RANGE

(% or PPM)

## TRI REPORTING

CAS NO.

AVERAGE

108-24-7

## METALS (TCLP)

(DESIGNATE CONCENTRATION, PPM)

Metal	Concentration (ppm)
Arsenic	0
Barium	0
Chromium	0
Cadmium	0
Copper	0
Lead	0
Manganese	0
Mercury	0
Nickel	0
Selenium	0
Silver	0
Thallium	0
Zinc	0

Waste analysis data attached: ☒ Yes ☐ No Number of Additional Pages 5 Waste Properties determined by:        Process Knowledge ☐ Waste Analysis ☒SHIPPING INFORMATION: (49 CFR 172.101) Proper DOT Shipping Name: Waste Acetic AnhydrideDOT Hazard Class: 8, 3UN/NA Number: UN1715Packing Group: IIReportable Qty.: 5000Method of Shipment (s): ☐ Bulk Solids ☐ Bulk Liquids ☐ Tank Truck ☐ Vacuum Truck ☐ Other: ☐ 20 Yard Box ☐ 25 Yard Box ☐ 30 Yard Box ☐ 40 Yard Box☐ Van ☒ Drums ☐ Totes ☐ Flat Bed ☐ Other: ☐ OtherMethod of Collection: ☐ Underground Tanks ☐ Above Ground Tanks ☐ Sumps ☒ Drums ☐ Other

Required personnel protective equipment &amp; procedures while in your plant:

Full face respirator with organic cartridge. Chemical suit and standard ppe

Other comments or hazards including effects on human health in the event of a release:

Vapors are corrosive to mucous membranes, Corrosive to skin and eyes.

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description of this waste material, its constituents and its known or suspected hazards. I further certify and warrant that this information is the result of an analysis of a representative sample of the waste obtained and analyzed in accordance with testing procedures of the U.S. Environmental Protection Agency or by the application of knowledge of the process generating the waste materials.

SIGNATURE: Kenneth E. Smith CSPTITLE: EHS MANAGERDATE: 5/5/09

EPAHQ082001635

**TABLE 2**  
**UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)**

C Name Zach Systems  
Waste Stream Name Acetic Anhydride

Manifest Number \_\_\_\_\_

TM Deer Park Services Limited Partnership WS# \_\_\_\_\_

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Deer Park Services by checking the applicable constituents listed below. You must then complete the TM Deer Park Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES ☐ NO ☒ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<b>I. Organic Constituents</b>			
2-Acetylaminofluorene	53-96-3	0.059	140
4-Aminobiphenyl	92-67-1	0.13	NA
A2213 [6]	30558-43-1	0.042	1.4
Acenaphthene	83-32-9	0.059	3.4
Acenaphthylene	208-96-8	0.059	3.4
Acetone	67-64-1	0.28	160
Acetonitrile	75-05-8	5.6	38
Acetophenone	96-86-2	0.01	9.7
Acrolein	107-02-8	0.29	NA
Acrylamide	79-06-1	19	23
Acrylonitrile	107-13-1	0.24	84
Aldicarb sulfone [6]	1646-88-4	0.056	0.28
Aldrin	309-00-2	0.021	0.066
alpha-BHC	319-84-6	0.00014	0.066
Aniline	62-53-3	0.81	14
Anthracene	120-12-7	0.059	3.4
Aramite	140-57-8	0.36	NA
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
4-Bromophenyl phenyl ether	101-55-3	0.055	15
Barban [6]	101-27-9	0.056	1.4
Bendiocarb [6]	22781-23-3	0.056	1.4
Bendiocarb phenol [6]	22961-82-6	0.056	1.4
Benomyl [6]	17804-35-2	0.056	1.4
Benz(a)anthracene	56-55-3	0.059	3.4
Benzal chloride	98-87-3	0.055	6
Benzene	71-43-2	0.14	10
Benzo(a)pyrene	50-32-8	0.061	3.4
Benzo(b)fluoranthene	205-99-2	0.11	6.8
(difficult to distinguish from benzo(k)fluoranthene)			
Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
Benzo(k)fluoranthene	207-08-9	0.11	6.8
(difficult to distinguish from benzo(b)fluoranthene)			
beta-BHC	319-85-7	0.00014	0.066
bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2
bis(2-Chloroethyl)ether	111-44-4	0.033	6
Bromodichloromethane	75-27-4	0.35	15
Bromoform (Tribromomethane)	75-25-2	0.63	15
Bromomethane/Methyl bromide	74-83-9	0.11	15
Butyl benzyl phthalate	85-68-7	0.017	28
Butylate [6]	2008-41-5	0.042	1.4
2-chloro-1,3-butadiene	126-99-8	0.057	0.28
2-Chloroethyl vinyl ether	110-75-8	0.062	NA
2-Chloronaphthalene	91-58-7	0.055	5.6
2-Chlorophenol	95-57-8	0.044	5.7
3-Chloropropylene	107-05-1	0.036	30
Carbaryl [6]	63-25-2	0.006	0.14
Carbenzadim [6]	10605-21-7	0.056	1.4
Carbofuran [6]	1563-66-2	0.006	0.14
<b>I. Organic Constituents (Continued)</b>			

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
Carbofuran phenol [6]	1563-38-8	0.056	1.4
Carbon disulfide	75-15-0	3.8	4.8mg/l
Carbon tetrachloride	56-23-5	0.057	6
Carbosulfan [6]	55285-14-8	0.028	1.4
Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
Chlorobenzene	108-90-7	0.057	6
Chlorobenzilate	510-15-6	0.1	NA
Chlorodibromomethane	124-48-1	0.057	15
Chloroethane	75-00-3	0.27	6
Chloroform	67-66-3	0.046	6
Chloromethane (Methyl chloride)	74-87-3	0.19	30
Chrysene	218-01-9	0.059	3.4
m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
m-Cumenyl methylcarbamate [6]	64-00-6	0.056	1.4
cis-1,3-Dichloropropylene	10061-01-5	0.036	18
Cycloate [6]	1134-23-2	0.042	1.4
Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
1,1-Dichloroethane	75-34-3	0.059	6
1,1-Dichloroethylene	75-35-4	0.025	6
1,2-Dibromo-3-chloropropane	96-12-8	0.11	15
1,2-Dichloroethane	107-06-2	0.21	6
trans-1,2-Dichloroethylene	156-60-5	0.054	30
1,2-Dichloropropane	78-87-5	0.85	18
1,2-Diphenylhydrazine	122-66-7	0.087	NA
trans-1,3-Dichloropropylene	10061-02-6	0.036	18
1,4-Dinitrobenzene	100-25-4	0.32	2.3
1,4-Dioxane	123-91-1	12	170
2,4-Dichlorophenol	120-83-2	0.044	14
2,4-Dichlorophenoxyacetic acid/2,4-D	94-75-7	0.72	10
2,4-Dinitrophenol	51-28-5	0.12	160
2,4-Dinitrotoluene	121-14-2	0.32	140
2,6-Dichlorophenol	87-65-0	0.044	14
2,6-Dinitrotoluene	606-20-2	0.55	28
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	0.72	10
2,4-Dimethyl phenol	105-67-9	0.036	14
4,6-Dinitro-o-cresol	534-52-1	0.28	160
delta-BHC	319-86-8	0.023	0.066
di-n-butyl phthalate	84-74-2	0.057	28
Di-n-octyl phthalate	117-84-0	0.017	28
Di-n-propylnitrosamine	621-64-7	0.4	14
Dibenz(a,e)pyrene	192-65-4	0.061	NA
Dibenz(a,h)anthracene	53-70-3	0.055	8.2
Dibromomethane	74-95-3	0.11	15
Dichlorodifluoromethane	75-71-8	0.23	7.2
Dieldrin	60-57-1	0.017	0.13
Diethyl phthalate	84-66-2	0.2	28
Diethylene glycol, dicarbamate [6]	5952-26-1	0.056	1.4
Dimethyl phthalate	131-11-3	0.047	28
Dimetilan [6]	644-64-4	0.056	1.4
Diphenylamine	122-39-4	0.92	13
(difficult to distinguish from diphenylnitrosamine)			
Methyl isobutyl ketone	108-10-1	0.14	33

**TABLE 2**  
**UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)**

Generator Name ZACH Systems

Manifest Number \_\_\_\_\_

Waste Stream Name WASTE triethylamine

TM Deer Park Services Limited Partnership WS# \_\_\_\_\_

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Deer Park Services by checking the applicable constituents listed below. You must then complete the TM Deer Park Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES ☐ NO ☐ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

<input checked="" type="checkbox"/>	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/>	Diphenylnitrosamine	86-30-6	0.92	13
<input type="checkbox"/>	(difficult to distinguish from diphenylamine)			
<input type="checkbox"/>	Disulfoton	298-04-3	0.017	6.2
<input type="checkbox"/>	Dithiocarbamates (total) [6]	137-30-4	0.028	28
<input type="checkbox"/>	Endosulfan I	959-98-8	0.023	0.066
<input type="checkbox"/>	Endosulfan II	33213-65-9	0.029	0.13
<input type="checkbox"/>	Endosulfan sulfate	1031-07-8	0.029	0.13
<input type="checkbox"/>	Endrin	72-20-8	0.0028	0.13
<input type="checkbox"/>	Endrin aldehyde	7421-93-4	0.025	0.13
<input type="checkbox"/>	EPTC [6]	759-94-4	0.042	1.4
<input type="checkbox"/>	Ethyl acetate	141-78-6	0.34	33
<input type="checkbox"/>	Ethyl benzene	100-41-4	0.057	10
<input type="checkbox"/>	Ethyl cyanide/propanenitrile	107-12-0	0.24	360
<input type="checkbox"/>	Ethyl ether	60-29-7	0.12	160
<input type="checkbox"/>	Ethyl methacrylate	97-63-2	0.14	160
<input type="checkbox"/>	Ethyl Oxide	75-21-8	0.12	NA
<input type="checkbox"/>	Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
<input type="checkbox"/>	Famphur	52-85-7	0.017	15
<input type="checkbox"/>	Fluoranthene	206-44-0	0.068	3.4
<input type="checkbox"/>	Fluorene	86-73-7	0.059	3.4
<input type="checkbox"/>	Formetanate hydrochloride [6]	23422-53-9	0.056	1.4
<input type="checkbox"/>	Formparanate [6]	17702-57-7	0.056	1.4
<input type="checkbox"/>	gamma-BHC	58-89-9	0.0017	0.066
<input type="checkbox"/>	Heptachlor	76-44-8	0.0012	0.066
<input type="checkbox"/>	Heptachlor epoxide	1024-57-3	0.016	0.066
<input type="checkbox"/>	Hexachlorobenzene	118-74-1	0.055	10
<input type="checkbox"/>	Hexachlorobutadiene	87-68-3	0.055	5.6
<input type="checkbox"/>	Hexachlorocyclopentadiene	77-47-4	0.057	2.4
<input type="checkbox"/>	Hexachloroethane	67-72-1	0.055	30
<input type="checkbox"/>	Hexachloropropylene	1888-71-7	0.035	30
<input type="checkbox"/>	HxCDDs (All Hexachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/>	HxCDFs (All Hexachlorodibenzofurans)	N/A	0.000063	0.001
<input type="checkbox"/>	3-Iodo-2-propynyl n-butylcarbamate [6]	55406-53-6	0.056	1.4
<input type="checkbox"/>	Ideno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
<input type="checkbox"/>	Iodomethane	74-88-4	0.19	65
<input type="checkbox"/>	Isobutyl alcohol	78-83-1	5.6	170
<input type="checkbox"/>	Isodrin	465-73-6	0.021	0.066
<input type="checkbox"/>	Isolan [6]	119-38-0	0.056	1.4
<input type="checkbox"/>	Isosafrole	120-58-1	0.081	2.6
<input type="checkbox"/>	Kepone	143-50-0	0.0011	0.13
<input type="checkbox"/>	3-Methylcholanthrene	56-49-5	0.0055	15
<input type="checkbox"/>	4,4-Methylene bis (2-chloroaniline)	101-14-4	0.5	30
<input type="checkbox"/>	m-Dichlorobenzene	541-73-1	0.036	6
<input type="checkbox"/>	Methacrylonitrile	126-98-7	0.24	84
<input type="checkbox"/>	Methanol	67-56-1	5.6	0.75 mg/l TCLP
<input type="checkbox"/>	Methiocarb [6]	2032-65-7	0.056	1.4
<input type="checkbox"/>	Methomyl [6]	16752-77-5	0.028	0.14
<input type="checkbox"/>	Methoxychlor	72-43-5	0.25	0.18
<input type="checkbox"/>	Methapyrilene	91-80-5	0.081	1.5
<input type="checkbox"/>	Methyl ethyl ketone	78-93-3	0.28	36
<input type="checkbox"/>	<b>I. Organic Constituents (Continued)</b>			
<input type="checkbox"/>	Phorate	298-02-2	0.021	4.6

<input checked="" type="checkbox"/>	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/>	Methyl methacrylate	80-62-6	0.14	160
<input type="checkbox"/>	Methyl methansulfonate	66-27-3	0.018	NA
<input type="checkbox"/>	Methyl parathion	298-00-0	0.014	4.6
<input type="checkbox"/>	Methylene chloride	75-09-2	0.089	30
<input type="checkbox"/>	Metolcarb [6]	1129-41-5	0.056	1.4
<input type="checkbox"/>	Mexacarbate [6]	315-18-4	0.056	1.4
<input type="checkbox"/>	Molinate [6]	2212-67-1	0.042	1.4
<input type="checkbox"/>	MxCDDs (All Hexachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/>	2-Naphthylamine	91-59-8	0.52	NA
<input type="checkbox"/>	5-Nitro-o-toluidine	99-55-8	0.32	28
<input type="checkbox"/>	n-Butyl alcohol	71-36-3	5.6	2.6
<input type="checkbox"/>	N-Nitroso-di-n-butylamine	924-16-3	0.4	17
<input type="checkbox"/>	N-Nitrosodiethylamine	55-15-5	0.4	28
<input type="checkbox"/>	N-Nitrosodimethylamine	62-75-9	0.4	2.3
<input type="checkbox"/>	N-Nitrosomethylethylamine	10595-95-6	0.4	2.3
<input type="checkbox"/>	N-Nitrosomorpholine	59-89-2	0.4	2.3
<input type="checkbox"/>	N-Nitrosopiperidine	100-75-4	0.013	35
<input type="checkbox"/>	N-Nitrosopyrrolidine	930-55-2	0.013	35
<input type="checkbox"/>	Naphthalene	91-20-3	0.059	5.6
<input type="checkbox"/>	Nitrobenzene	98-95-3	0.068	14
<input type="checkbox"/>	o,p-DDD	53-19-0	0.023	0.087
<input type="checkbox"/>	o,p-DDE	3424-82-6	0.031	0.087
<input type="checkbox"/>	o,p-DDT	789-02-6	0.0039	0.087
<input type="checkbox"/>	o-Cresol	95-48-7	0.11	5.6
<input type="checkbox"/>	o-Dichlorobenzene	95-50-1	0.088	6
<input type="checkbox"/>	o-Nitroaniline	88-74-4	0.27	14
<input type="checkbox"/>	o-Nitrophenol	88-75-5	0.028	13
<input type="checkbox"/>	Oxamyl [6]	23135-22-0	0.056	0.28
<input type="checkbox"/>	o-Phenylenediamine [6]	95-54-5	0.056	5.6
<input type="checkbox"/>	p,p-DDD	72-54-8	0.023	0.087
<input type="checkbox"/>	p,p-DDE	72-55-9	0.031	0.087
<input type="checkbox"/>	p,p-DDT	50-29-3	0.0039	0.087
<input type="checkbox"/>	p-Chloro-m-cresol	59-50-7	0.018	14
<input type="checkbox"/>	p-Chloroaniline	106-47-8	0.46	16
<input type="checkbox"/>	p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
<input type="checkbox"/>	p-Dichlorobenzene	106-46-7	0.09	6
<input type="checkbox"/>	p-Dimethylaminoazobenzene	60-11-7	0.13	NA
<input type="checkbox"/>	p-Nitroaniline	100-01-6	0.028	28
<input type="checkbox"/>	p-Nitrophenol	100-02-7	0.12	29
<input type="checkbox"/>	Parathion	56-38-2	0.014	4.6
<input type="checkbox"/>	Pebulate [6]	1114-71-2	0.042	1.4
<input type="checkbox"/>	PeCDDs (All Pentachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/>	PeCDFs (All Pentachlorodibenzofurans)	N/A	0.000035	0.001
<input type="checkbox"/>	Pentachlorobenzene	608-93-5	0.055	10
<input type="checkbox"/>	Pentachloroethane	76-01-7	0.055	6
<input type="checkbox"/>	Pentachloronitrobenzene	82-68-8	0.055	4.8
<input type="checkbox"/>	Pentachlorophenol	87-86-5	0.089	7.4
<input type="checkbox"/>	Phenacetin	62-44-2	0.081	16
<input type="checkbox"/>	Phenanthrene	85-01-8	0.059	5.6
<input type="checkbox"/>	Phenol	108-95-2	0.039	6.2
<input type="checkbox"/>	<b>II. Inorganic Constituents (Continued)</b>			
<input type="checkbox"/>	Beryllium	7440-41-7	0.82 *	1.22 mg/l TCLP

EPAHQ0082001637

**TABLE 2**  
**UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)**

Generator Name \_\_\_\_\_

Manifest Number \_\_\_\_\_

Waste Stream Name \_\_\_\_\_

TM Deer Park Services Limited Partnership WS# \_\_\_\_\_

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Deer Park Services by checking the applicable constituents listed below. You must then complete the TM Deer Park Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES ☐ NO ☐ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input checked="" type="checkbox"/> Phthalic acid	100-21-0	0.055	28
<input type="checkbox"/> Phthalic anhydride	85-44-9	0.055	28
<input type="checkbox"/> Physostigmine [6]	57-47-6	0.056	1.4
<input type="checkbox"/> Physostigmine salicylate [6]	57-64-7	0.056	1.4
<input type="checkbox"/> Promecarb [6]	2631-37-0	0.056	1.4
<input type="checkbox"/> Pronamide	23950-58-5	0.093	1.5
<input type="checkbox"/> Propam [6]	122-42-9	0.056	1.4
<input type="checkbox"/> Propoxur [6]	114-26-1	0.056	1.4
<input type="checkbox"/> Prosulfocarb [6]	52888-80-9	0.042	1.4
<input type="checkbox"/> Pyrene	129-00-0	0.067	8.2
<input type="checkbox"/> Pyridine	110-86-1	0.014	16
<input type="checkbox"/> Safrole	94-59-7	0.081	22
<input type="checkbox"/> Silvex (2,4,5-TP)	93-72-1	0.72	7.9
<input type="checkbox"/> 1,1,1,2-Tetrachloroethane	630-20-6	0.057	6
<input type="checkbox"/> 1,1,1-Trichloroethane	71-55-6	0.054	6
<input type="checkbox"/> 1,1,2,2-Tetrachloroethane	79-34-5	0.057	6
<input type="checkbox"/> 1,1,2-Trichloro-2,2,2-trifluoroethane	76-13-1	0.057	30
<input type="checkbox"/> 1,1,2-Trichloroethane	79-00-5	0.054	6
<input type="checkbox"/> 1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
<input type="checkbox"/> 1,2,4-Trichlorobenzene	120-82-1	0.055	19
<input type="checkbox"/> 1,2,3-Trichloropropane	96-18-4	0.85	30
<input type="checkbox"/> 2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4
<input type="checkbox"/> 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	93-76-5	0.72	7.9
<input type="checkbox"/> 2,4,5-Trichlorophenol	95-95-4	0.18	7.4
<input type="checkbox"/> 2,4,6-Trichlorophenol	88-06-2	0.035	7.4
<input type="checkbox"/> TCDDs (All Tetrachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
<input type="checkbox"/> TCDFs (All Tetrachlorodibenzofurans)	N/A	0.000063	0.001
<input type="checkbox"/> Tetrachloroethylene	127-18-4	0.056	6
<input type="checkbox"/> Thiodicarb [6]	59669-26-0	0.019	1.4
<input type="checkbox"/> Thiophanate-methyl [6]	23564-05-8	0.056	1.4
<input type="checkbox"/> Tirpate [6]	26419-73-8	0.056	0.28
<input type="checkbox"/> Toluene	108-88-3	0.08	10
<input type="checkbox"/> Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.1	10
<input type="checkbox"/> Toxaphene	8001-35-2	0.0095	2.6
<input type="checkbox"/> Triallate [6]	2303-17-8	0.042	1.4
<input type="checkbox"/> Trichloroethylene	79-01-6	0.054	6
<input type="checkbox"/> Trichloromonofluoromethane	75-69-4	0.02	30
<input type="checkbox"/> Triethylamine [6]	101-44-8	0.081	1.5
<input type="checkbox"/> tris-(2,3-Dibromopropyl) phosphate	126-72-7	0.11	0.1
<input type="checkbox"/> Vernolate [6]	1929-77-7	0.042	1.4
<input type="checkbox"/> Vinyl chloride	75-01-4	0.27	6
<input type="checkbox"/> Xylenes-mixed isomers	1330-20-7	0.32	30
<input type="checkbox"/> (sum of o-,m-,and p-xylene concentrations)			

**II. Inorganic Constituents**

<input type="checkbox"/> Antimony	7440-36-0	1.9 *	1.15 mg/l TCLP
<input type="checkbox"/> Arsenic	7440-38-2	1.4 *	5.0 mg/l TCLP
<input type="checkbox"/> Barium	7440-39-3	1.2 *	21.0 mg/l TCLP

Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
<input type="checkbox"/> Cadmium	7440-43-9	0.69 *	0.11 mg/l TCLP
<input type="checkbox"/> Chromium (Total)	7440-47-3	2.77 *	0.60 mg/l TCLP
<input type="checkbox"/> Cyanides (Amenable) [4]	57-12-5	0.86	30
<input type="checkbox"/> Cyanides (Total) [4]	57-12-5	1.2	590
<input type="checkbox"/> Fluoride [5]	16984-48-8	35	NA
<input type="checkbox"/> Lead	7439-92-1	0.69 *	0.75 mg/l TCLP
<input type="checkbox"/> Mercury - All others	7439-97-6	0.15 *	0.025 mg/l TCLP
<input type="checkbox"/> Mercury - Retort nonwastewater	7439-97-6	NA *	0.20 mg/l TCLP
<input type="checkbox"/> Nickel	7440-02-0	3.98 *	11.0 mg/l TCLP
<input type="checkbox"/> Selenium	7782-49-2	0.82 *	5.7 mg/l TCLP
<input type="checkbox"/> Silver	7440-22-4	0.43 *	0.14 mg/l TCLP
<input type="checkbox"/> Sulfide	18496-25-8	14	NA
<input type="checkbox"/> Thallium	7440-28-0	1.4 *	0.2 mg/l TCLP
<input type="checkbox"/> Vanadium [4]	7440-62-2	4.3 *	1.6 mg/l TCLP
<input type="checkbox"/> Zinc [5]	7440-66-6	2.61 *	4.3 mg/l TCLP

- [1] CAS: Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- [2] Concentration standards for wastewater's are expressed in mg/l and are based on analysis of composite samples
- [3] Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart O, or 40 CFR part 265, subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for non-wastewaters are based on analysis of grab samples.
- [4] Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- [5] These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at 268.2(i).
- [6] Between August 26, 1997 and August 26, 1998, these constituents are not underlying hazardous constituents as defined at 268.2(i).

[59FR 47982,Sept.19,1994; 60 FR 242,Jan.3,1995; 61 FR 15566,Apr.08,1996; 61 FR]

I certify that the above is true and correct and that the submission of a false or misleading certification can lead to the possibility of fines or imprisonment.

  
Generator Signature

5/13/2009  
Date

MSDS Number: A0338 \*\*\*\*\* Effective Date: 05/19/08 \*\*\*\*\* Supersedes: 08/18/05

<b>MSDS</b> Material Safety Data Sheet		24 Hour Emergency Telephone: 800-869-2151 CHEMTREC: 1-800-424-9300
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865		National Response in Canada CANUTEC: 613-466-4000
Mallinckrodt CHEMICALS		Outside U.S. and Canada Chemtrec: 703-527-3887
J.T. Baker		NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.
All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.		

## ACETIC ANHYDRIDE

## 1. Product Identification

**Synonyms:** Acetyl oxide; Acetic acid anhydride; Acetic oxide; Ethanoic anhydride  
**CAS No.:** 108-24-7  
**Molecular Weight:** 102.09  
**Chemical Formula:** (CH<sub>3</sub>CO)<sub>2</sub>O  
**Product Codes:**  
 J.T. Baker: 0018  
 Mallinckrodt: 2420

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Acetic Anhydride	108-24-7	97 - 100%	Yes

## 3. Hazards Identification

## Emergency Overview

**DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. FLAMMABLE LIQUID AND VAPOR. WATER REACTIVE. HARMFUL IF SWALLOWED OR INHALED. VAPOR CAUSES RESPIRATORY TRACT IRRITATION AND SEVERE EYE IRRITATION.**

**SAF-T-DATA<sup>(tm)</sup>** Ratings (Provided here for your convenience)

Health Rating: 3 - Severe  
 Flammability Rating: 2 - Moderate  
 Reactivity Rating: 2 - Moderate  
 Contact Rating: 4 - Extreme (Corrosive)  
 Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER  
 Storage Color Code: Red Stripe (Store Separately)

## Potential Health Effects

**Inhalation:**

Vapors are corrosive to the mucous membranes of the upper respiratory tract. Exposure to vapors may cause irritation of the nose, throat, and coughing. Exposure to high concentrations may result in severe damage to the lungs. Symptoms of lung edema are often delayed and are aggravated by physical effort.

**Ingestion:**

Corrosive. Causes a burning pain in the stomach, followed by nausea and vomiting.

**Skin Contact:**

Corrosive: Does not cause severe burning on contact but can cause delayed reaction burns. If not removed by washing, the skin may become reddened and later turn white and wrinkled. Continued skin contact may cause dermatitis.

**Eye Contact:**

Corrosive: Contact with the liquid or vapor may produce a burning sensation and tearing. Redness, pain and blurred vision may be followed by permanent eye damage. The appearance of eye burns may be delayed. Irritation effects begin with airborne concentrations as low as 0.36 mg/m<sup>3</sup>.

**Chronic Exposure:**

Repeated and prolonged exposure to vapor may cause irritation of the skin and chronic eye irritation.

**Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.

#### 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### 5. Fire Fighting Measures

**Fire:**

Flash point: 49C (120F) CC

Autoignition temperature: 316C (601F)

Flammable limits in air % by volume:

lcl: 2.7; ucl: 10.3

Flammable.

**Explosion:**

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Sealed containers may rupture when heated. Vapors can flow along surfaces to distant ignition source and flash back. A violent exothermic reaction occurs with water. Sufficient heat may be produced to ignite combustible materials. Sensitive to static discharge.

**Fire Extinguishing Media:**

Water spray, dry chemical, alcohol foam, or carbon dioxide. Use water with caution as material reacts with water.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Water spray may be used to disperse vapors and dilute spills to nonflammable mixtures, but be aware of the potential for violent reaction with water. Neutralize with soda ash or lime. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

#### 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Keep away from water. This material is corrosive to steel, galvanized iron, copper and copper alloys. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

#### 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):

5 ppm (TWA)

-ACGIH Threshold Limit Value (TLV):

5 ppm (TWA);

-NIOSH Recommended Exposure Limit (REL):

5 ppm (Ceiling)

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Rubber and neoprene are recommended materials for personal protective equipment.

**Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:**  
Clear, colorless liquid.  
**Odor:**  
Strong acetic odor; good warning properties.  
**Solubility:**  
Slowly soluble in water (reacts)  
**Specific Gravity:**  
1.08 @ 15C/4C  
**pH:**  
No information found.  
**% Volatiles by volume @ 21C (70F):**  
100  
**Boiling Point:**  
140C (284F)  
**Melting Point:**  
-73C (-99F)  
**Vapor Density (Air=1):**  
3.52  
**Vapor Pressure (mm Hg):**  
4 @ 20C (68F)  
**Evaporation Rate (BuAc=1):**  
0.46

## 10. Stability and Reactivity

**Stability:**  
Stable under ordinary conditions of use and storage. Heat will contribute to instability.  
**Hazardous Decomposition Products:**  
When heated to decomposition, it emits toxic fumes such as acetic acid and carbon monoxide. Reacts violently with water to yield acetic acid and much heat.  
**Hazardous Polymerization:**  
Will not occur.  
**Incompatibilities:**  
Water, steam, mineral acids, oxidizing materials, alcohols, or amines may cause violent reaction. Contact with strong caustics will cause violent reaction and spattering. Corrosive to copper, brass, bronze, and iron.  
**Conditions to Avoid:**  
Heat, flames, ignition sources, water and incompatibles.

## 11. Toxicological Information

Oral rat LD50: 1780 mg/Kg; inhalation rat LC50: 1000 ppm/4-hour; skin rabbit LD50 4 mL/kg; Irritation data: Skin rabbit, Open Draize, 10 mg/24H mild; Eye rabbit, Open Draize, 250 ug severe

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Acetic Anhydride (108-24-7)	No	No	None

## 12. Ecological Information

**Environmental Fate:**  
When released into the soil, this material is expected to leach into groundwater. When released to water, this material is expected to react and form acetic acid. This material is not expected to significantly bioaccumulate.  
**Environmental Toxicity:**  
No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

**Domestic (Land, D.O.T.)**  
-----  
**Proper Shipping Name:** ACETIC ANHYDRIDE

**Hazard Class:** 8, 3  
**UN/NA:** UN1715  
**Packing Group:** II  
**Information reported for product/size:** 40LB

**International (Water, L.M.O.)**

**Proper Shipping Name:** ACETIC ANHYDRIDE  
**Hazard Class:** 8, 3  
**UN/NA:** UN1715  
**Packing Group:** II  
**Information reported for product/size:** 40LB

**International (Air, I.C.A.O.)**

**Proper Shipping Name:** ACETIC ANHYDRIDE  
**Hazard Class:** 8, 3  
**UN/NA:** UN1715  
**Packing Group:** II  
**Information reported for product/size:** 40LB

## 15. Regulatory Information

```
-----\Chemical Inventory Status - Part 1\-----
Ingredient                                     TSCA  EC   Japan  Australia
-----
Acetic Anhydride (108-24-7)                   Yes  Yes   Yes    Yes
```

```
-----\Chemical Inventory Status - Part 2\-----
Ingredient                                     Korea  DSL   NDSL   Phil.
-----
Acetic Anhydride (108-24-7)                   Yes   Yes   No     Yes
```

```
-----\Federal, State & International Regulations - Part 1\-----
Ingredient                                     -SARA 302-   -SARA 313-
RQ  TPQ      List  Chemical Catg.
-----
Acetic Anhydride (108-24-7)                   No   No     No     No
```

```
-----\Federal, State & International Regulations - Part 2\-----
Ingredient                                     CERCLA   RCRA-   TSCA-
261.33   8(d)
-----
Acetic Anhydride (108-24-7)                   5000    No     No
```

Chemical Weapons Convention: No      TSCA 12(b): No      CDPA: Yes  
 SARA 311/312: Acute: Yes      Chronic: Yes      Fire: Yes      Pressure: No  
 Reactivity: Yes      (Pure / Liquid)

**Australian Hazchem Code:** 2P

**Poison Schedule:** S6

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: 3 Flammability: 2 Reactivity: 1

**Label Hazard Warning:**

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. FLAMMABLE LIQUID AND VAPOR. WATER REACTIVE. HARMFUL IF SWALLOWED OR INHALED. VAPOR CAUSES RESPIRATORY TRACT IRRITATION AND SEVERE EYE IRRITATION.

**Label Precautions:**

Do not get in eyes, on skin, or on clothing.  
 Do not contact with water.  
 Do not breathe vapor.  
 Keep container closed.  
 Use only with adequate ventilation.  
 Wash thoroughly after handling.  
 Keep away from heat, sparks and flame.

**Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.

**Disclaimer:**

\*\*\*\*\*

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\*\*\*\*\*

Prepared by: Environmental Health & Safety  
Phone Number: (314) 654-1600 (U.S.A.)

## Al Longoria

---

**From:** Kevin Wittmer [KWITTMER@usecology.com]  
**Sent:** Friday, April 24, 2009 7:46 AM  
**To:** Al Longoria  
**Cc:** Nicole Schmalstieg  
**Subject:** RE: Quote for non bulk materials

Al,

Thank you for the opportunity. We can receive all of these drums at US Ecology Texas. Based on the information provided we will be able to dispose of everything at Robstown except the Triethylamine. This will need to be sent off-site for disposal. We will need completed profiles and it is the responsibility of the generator to properly characterize their waste but I have priced the drums based on what I can tell from the MSDS'. Please see below and call with questions.

Thanks,  
Kevin  
US Ecology  
(800) 955-3265

-----**From:** Al Longoria [mailto:[alongoria@cesenvironmental.com](mailto:alongoria@cesenvironmental.com)]  
**Sent:** Thursday, April 23, 2009 10:44 AM  
**To:** Nicole Schmalstieg  
**Subject:** Quote for non bulk materials



Nicole,

Would you look over these MSDS and let me know if you can take the material and pricing please?

Here are the approximate volumes of each:

~~Triethylamine - 4 drums a quarter. D001 \$200.00/drum plus 10% energy surcharge~~

Morpholine - 1 drum a quarter  
RCRA - D002

MSDS says DOT corrosive but I do not know if it is

If D002 - \$125.00/drum plus 10% and \$8.00/ton tax  
If non-hazardous \$60.00/drum plus 10% and \$6.00/ton tax

✓ Para nitro phenyl chloroformate - 38 drums a quarter. Non-Hazardous Solid  
\$40.00/drum plus 10% and \$6.00/ton tax

CIP 100 - 1 drum a quarter. D002 \$125.00/drum plus 10% and \$8.00/ton tax

Thank you,

Al Longoria  
CES Environmental Services, Inc.  
Direct: (713) 800-7911  
Cell: (713) 410-7789  
Fax: (713) 748-8664  
[CES Environmental.com](http://CES Environmental.com)

832-202-8479

Terrance yoon

Al Longoria

**From:** Chauncey, James R [Jim.Chauncey@safety-kleen.com]  
**Sent:** Friday, April 24, 2009 11:40 AM  
**To:** Al Longoria  
**Subject:** RE: Quote for non bulk materials

Al,

Thanks for the opportunity to give you pricing... Please see the prices listed below on your emails along with an SK technology code that I have concluded. The pricing below is not final until we can get an SK profile completed, signed, and approved. Final pricing and quote can then be obtained. Hope this helps...

Jim Chauncey  
Key Account Manager - Denton RC

Safety-Kleen Systems, Inc.  
1722 Cooper Creek Road  
Denton, TX 76208  
Office - 940-483-5253  
Cell - 940-230-5995  
Fax - 940-483-5258

SK

**From:** Al Longoria [mailto:alongoria@cesenvironmental.com]  
**Sent:** Thursday, April 23, 2009 10:45 AM  
**To:** Chauncey, James R  
**Subject:** Quote for non bulk materials

Jim,

Would you look over these MSDS and let me know if you can take the material and pricing please?

Here are the approximate volumes of each:

✓ Di butyl ether - 5 drums a quarter. - FBLQ = \$33.00  
Isopropyl ether - 1 drum a quarter. - IRRL = \$580.00  
~~Tetraethylamine - 4 drums a quarter. - IRRL = \$580.00~~  
Isopropyl alcohol - 3 drums a quarter - FBLQ = \$33.00  
~~Acetic anhydride - 8 drums a quarter. - IRRL = \$580.00~~

Thank you,

Al Longoria  
CES Environmental Services, Inc.  
Direct: (713) 800-7911  
Cell: (713) 410-7789  
Fax: (713) 748-8664  
CES Environmental.com

## Al Longoria

---

**From:** Tiffany Skidmore [tskidmore@texasmolecular.com]  
**Sent:** Thursday, April 23, 2009 3:53 PM  
**To:** Al Longoria  
**Subject:** FW: Quote for non bulk materials  
**Attachments:** Acetic anhydride.pdf; CIP 100.pdf; morpholin.pdf; n-butyl ether.pdf; Triethylamine.pdf

Please see below...

Thank you,

## Tiffany Skidmore

**TM Deer Park Services, LP**  
2525 Independence Parkway South  
Deer Park, TX 77536  
Phone: 281-930-2537  
Fax: 281-930-2535  
Scheduling: 281-930-2540



**\*\*PLEASE NOTE: OUR STREET ADDRESS HAS CHANGED - PLEASE UPDATE YOUR RECORDS WITH THIS INFORMATION\*\***

**From:** Al Longoria [mailto:alongoria@cesenvironmental.com]  
**Sent:** Thursday, April 23, 2009 11:05 AM  
**To:** Tiffany Skidmore  
**Subject:** Quote for non bulk materials

Tiffany,

Would you look over these MSDS and let me know if you can take the material and pricing please?

Here are the approximate volumes of each:

Di butyl ether - 5 drums a quarter - how old is this material, has it been opened, and how has it been stored? ~~Has this material be checked for peroxides? We're going to be extremely particular about this stream because of its potential to form peroxides.~~

Triethylamine - 4 drums a quarter - \$95 / 55 gl drum (you'll probably get a better rate at a fuel blender)

Acetic anhydride - 9 drums a quarter - if in liquid form - estimated cost would be \$225/55 gl drum.

~~Morpholine - 1 drum a quarter - if liquid - estimated disposal rate \$125/55 gl drum~~  
~~CIP 100 - 1 drum a quarter - estimated disposal rate \$125/55 gl drum~~

Thank you,

**Al Longoria**  
**CES Environmental Services, Inc.**  
**Direct: (713) 800-7911**  
**Cell: (713) 410-7789**

Making Sodium Azide. Making 50 batch

Waste #		row	Quantity/batch (kg)	Quantity/month (MT)	Qty/year (MT)	Compounds	Moles	Compounds Qties/batch (kg)	w/w %
Organic waste # 1	OW 1	79	2561	35.9	256	Ethanol		500	19.5%
						Heptane		1961	76.6%
						Water		100	3.9%
Organic waste # 2	OW 2		1849	25.9	185	Toluene		1749	94.6%
						Heptane		206	5.9%
						Water ~2% DMSO		100	5.4%
Organic waste # 3	OW 3	268	3521	49.3	352	Ethyl Acetate		2921	83.0%
						DMSO		500	3.2%
						Water		100	2.8%
Organic waste # 4	OW 4	380	4785	67.0	479	DMSO		100	2.1%
						Di-Isopropyl ether		388	8.1%
						Impurities express in EEC azido acetamide		89	1.9%
						Ethyl acetate		378	7.9%
						Di Butyl Ether		3731	78.0%
						Water		100	2.1%
						NaCl	9264	542	5.0%
Aqueous waste # 1	WW 1	102	10824	151.5	1082	NH <sub>4</sub> OH	2689	94	0.9%
						Impurities (express in EEC-epoxide)	299	76	0.7%
						Ethanol		1500	13.9%
						Water		8612	79.6%
Aqueous waste # 2	WW 2	245	10085	141187.3	1008	NaCl		262	2.6%
						Impurities (express in EEC-Azido Amine)		89	0.9%
						DMSO		2531	25.1%
						Water		7203	71.4%
Aqueous waste # 3	WW 3	283	3625	50752.6	363	NaCl		365	10.1%
						Impurities (express in EEC-Azido Amine)		89	2.4%
						Ethyl Acetate		50	1.4%
						Water		3121	86.1%
Aqueous waste # 4	WW 4	326	2443	34198.1	244	Di-Butyl Ether		20	0.8%
						TPPO*		79	3.2%
						Water		2344	95.9%
scrubber stream treatment & cleaning	WW5	N/A	10843	151.8	1084	NaCl		400	3.7%
						NaNO <sub>2</sub>		200	1.8%
						Water		10243	94.5%
Solid waste # 1	SW 1	300	851	11912.3	85	TPPO*		711	83.5%
						DiButyl Ether		140	16.5%
Solid waste # 2	SW 2	339	24	342.1	2	Arbocel (filter aid)		19	79.5%
						Dibutyl Ether		5	20.5%

TPPO: Triphenyl Phosphine oxide

51619

## Joy Baker

---

**From:** Smith, Ron E [Ron.Smith@ZambonGroup.com]  
**Sent:** Wednesday, May 06, 2009 5:25 PM  
**To:** Joy Baker  
**Subject:** FW: azide : waste cost

See request posed to me, now made to you.

Ron Smith  
EHS

**From:** Edern, Andre  
**Sent:** Wednesday, May 06, 2009 5:04 PM  
**To:** Smith, Ron E  
**Subject:** azide : waste cost

Ron,

Could you update these costs with CES

11/28/06	CES	water and DMSO <del>★</del>	\$17,935.11	Azide organic wastes
12/11/06	CES	ETOac and Heptane	\$2,210.00	Azide organic wastes

I just have some global cost, I don't know if it is for 1 or multi trailer ???  
Ask them cost per gallon or any unit you want

Andre

Material	Quantity	Disposal	Type	Profile number
SCA-NCA,	22- 55 gallon drums	CES	class 2 solids	? Not sure what to do the MSDS is inconclusive
CDI	5-25 kg poly drums	CES	class 2 solids	3289
PNPCF	38-25 kg poly drums	✓ <del>TECO</del> <i>Rineco PCI</i>	D003, D002??	need waste code from ron. Profile is signed and completed in folder
Acetic Anhydride. 99%:	9 Poly drums (55 gal)	✓ tough one: try everyone (including TM)	D001, D002, D003	submitted to tm
Virtex-D, sodium dithionite blend:	7 drums (20 gal drums)	need MSDS		need MSDS from ron
N-butyl ether (NBE):	4 drums (metal, 55 gal)	✓ <del>TM</del>	TM, Fuels Blenders	D001
Triethylamine	3 full metal drums and one 2/3 full drums	need MSDS		submitted to tm
Lupragen N105 (N-methylmorpholin): <i>(morpholin)</i>	2 metal drum (55 gal)	need MSDS		Need profile written. MSDS is attached in email
Ferro-1,4-dioxane 25ppm:	3 metal drums (55 gal)	need MSDS		need MSDS from ron
ammonium chloride	2450 pounds in 50 pound bags.	CES	class 2 solids	3302
Isopropyl alcohol, 99% anhydrous.	3 drums -355 pounds each	Fuels Blend	D001	profile was sent back to ron. There was no signature
		CES	product	
potassium carbonate	4- 53 pound bags	CES	class 2 solids	3303
potassium carbonate	1-25 kg poly drum	CES	class 2 solids	3303

isopropyl ether ✓	1 drum (55 gal, metal)	TM, Fuels Blenders	D001	profile was sent back to ron. There was no signature
<div> PSC  AL 950 77  Waste Code  008 720314 </div> I-tert-leucine, in tol	1 drum (30 gal, fiberboard)	PSC <del>CES</del>	<del>class 2 solids</del>	<del>profile was originally written as a class 2 non haz solid. Ron added toluene so it is not D001 signed profile is in folder but will need to find a home for it.</del>
N-(2-Aminoethyl)morpholin ✓	1 drum	TECO & TM	D002	submitted to tec? TECO: 09-004-5229
<div> PSC  AL 96107  Waste Code  0107203H </div> Pirfinidone mother liquor	8 drums	do we already have a profile for this? This may be profiled with Zach to Phillips. If not on both, we need MSDS or profile		attached email of all of our current profiles with PSC. Not sure who we would write a secondary profile to.
CIP 100 ✓ ○	2/3 of 1 drum	TECO & TM	D002	need waste code from ron. Profile is signed and completed in folder
Methane Sulfonic Acid, anhydrous ← ○	2 drums	PACES??	BOL - feedstock?	Need profile written. MSDS is attached in email
activated carbon ✓	15 bags, 50 pound bags	fuels blender	D002	need profile written.
Z-valine ✓	750 kg, in poly bags in cubic yard box	CES	product	3300 ✓
			class 2 solids	3290 ✓

Material	Quantity	Disposal	Type	Profile number
SCA-NCA,	22- 55 gallon drums	CES	class 2 solids	? Not sure what to do the MSDS is inconclusive
CDI	5-25 kg poly drums	CES	class 2 solids	3289 ✓
0118407H PNPCF	38-25 kg poly drums	TECO	D003, D002??	need waste code from ron. Profile is signed and completed in folder
Acetic Anhydride. 99%:	9 Poly drums (55 gal)	tough one: try everyone (including TM)	D001, D002, D003	submitted to tm <i>see to tm</i>
Virtex-D, sodium dithionite blend:	7 drums (20 gal drums)	need MSDS		need MSDS from ron ✓
N-butyl ether (NBE):	4 drums (metal, 55 gal)	TM, Fuels Blenders	D001	profile was sent back to ron. There was no signature
<del>Trimethylamine</del>	<del>3 full metal drums and one 2/3 full drums</del>	<del>need MSDS</del>		<del>submitted to tm</del> ✗
Lupragen N105-N-methylmorpholin:	2 metal drum (55 gal)	need MSDS		Need profile written. MSDS is attached in email
Ferro-1,4-dioxane 25ppm:	3 metal drums (55 gal)	need MSDS		need MSDS from ron ✓
<del>Ammonium chloride</del>	<del>2450 pounds in 50 pound bags.</del>	<del>CES</del>	<del>class 2 solids</del>	<del>3302</del> ✗
Isopropyl alcohol, 99% anhydrous.	3 drums -355 pounds each	Fuels Blend	D001	profile was sent back to ron. There was no signature
potassium carbonate	4- 53 pound bags	CES	product	
potassium carbonate	1-25 kg poly drum	CES	class 2 solids	3303 ✓
			class 2 solids	3303 ✓

isopropyl ether	1 drum (55 gal, metal)	TM, Fuels Blenders	D001	profile was sent back to ron. There was no signature
I-tert-leucine, <i>in toluene</i>	1 drum (30 gal, fiberboard)	<del>CES</del> <i>Fuels Blenders Aralon PSC- PLS in folder profile # AL 958778 0107203H Waste Code 0087203H</i>	<del>class 2 solids</del>	profile was originally written as a class 2 non haz solid. Ron added toluene so it is not D001. signed profile is in folder but will need to find a home for it. ✓
N-(2-Aminoethyl)morpholin <i>UN2054, morpholine,</i>	1 drum	TECO & TM	D002	submitted to teco <i>01-006-5229</i> ✓
Pirfinidone mother liquor	8 drums	<i>PSC Aralon AL 96107 - profile Waste Code 0107203H</i> do we already have a profile for this? This may be profiled with Zach to Phillips. If not on both, we need MSDS or profile		attached email of all of our current profiles with PSC. Not sure who we would write a secondary profile to. ✓
CIP 100 <i>0117106H</i>	2/3 of 1 drum	TECO & TM	D002	need waste code from ron. Profile is signed and completed in folder
Methane Sulfonic Acid, anhydrous ←	2 drums	PACES??	BOL - feedstock?	Need profile written. MSDS is attached in email
activated carbon	15 bags, 50 pound bags	fuels blender	D002	need profile written.
Z-valine	750 kg, in poly bags in cubic yard box	CES	product	3300 ✓
			class 2 solids	3290 ✓

## MATERIAL SAFETY DATA SHEET

Date Printed: 04/28/2008  
Date Updated: 02/05/2006  
Version 1.4

## Section 1 - Product and Company Information

Product Name 4-METHYLMORPHOLINE, REAGENTPLUS, 99%  
Product Number M56557  
Brand SIAL  
  
Company Sigma-Aldrich  
Address 3050 Spruce Street  
SAINT LOUIS MO 63103 US  
Technical Phone: 800-325-5832  
Fax: 800-325-5052  
Emergency Phone: 314-776-6555

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
4-METHYLMORPHOLINE	109-02-4	No

Formula C5H11NO  
Synonyms 4-Methylmorpholin (Czech) \* N-Methylmorpholine \*  
4-Methylmorpholine \* Morpholine, N-methyl-  
RTECS Number: QE5775000

## Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

Flammable (USA) Highly Flammable (EU). Corrosive.  
Highly flammable. Harmful by inhalation, in contact with skin and  
if swallowed. Causes burns.

## HMIS RATING

HEALTH: 3  
FLAMMABILITY: 3  
REACTIVITY: 0

## NFPA RATING

HEALTH: 3  
FLAMMABILITY: 3  
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

## ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is  
conscious. Call a physician.

## INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give  
artificial respiration. If breathing is difficult, give oxygen.

## DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

---

### Section 5 - Fire Fighting Measures

---

#### FLAMMABLE HAZARDS

Flammable Hazards: Yes

#### EXPLOSION HAZARDS

Vapor may travel considerable distance to source of ignition and flash back. Container explosion can occur under fire conditions. In advanced or massive fires the area should be evacuated and the fire should be fought from a remote explosion-resistant location. Forms explosive mixtures in air.

#### FLASH POINT

57.2 °F 14 °C Method: closed cup

#### EXPLOSION LIMITS

Lower: 3 %

#### AUTOIGNITION TEMP

165 °C

#### FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.

---

### Section 6 - Accidental Release Measures

---

#### PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

---

## Section 7 - Handling and Storage

---

### HANDLING

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Suitable: Keep container closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Handle and store under nitrogen.

---

## Section 8 - Exposure Controls / PPE

---

### ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.  
Hand: Compatible chemical-resistant gloves.  
Eye: Chemical safety goggles.  
Other: Faceshield (8-inch minimum).

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Discard contaminated shoes. Wash contaminated clothing before reuse.

### EXPOSURE LIMITS

Country	Source	Type	Value
Poland		NDS	15 MG/M3
Poland		NDSch	30 MG/M3
Poland		NDSP	-

---

## Section 9 - Physical/Chemical Properties

---

Appearance	Physical State: Clear liquid Color: Colorless	
Property	Value	At Temperature or Pressure
Molecular Weight	101.15 AMU	
pH	10.6	20 °C Concentration: 50 g/l
BP/BP Range	113.0 - 116.0 °C	
MP/MP Range	- 66.0 °C	
Freezing Point	N/A	
Vapor Pressure	22.5 mmHg	20 °C
Vapor Density	> 1 g/l	
Saturated Vapor Conc.	N/A	
SG/Density	0.92 g/cm3	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	

Evaporation Rate	N/A	
Viscosity	< 0.001 Pas	20 °C
Surface Tension	N/A	
Partition Coefficient	Log Kow: - 0.320	
Decomposition Temp.	N/A	
Flash Point	57.2 °F 14 °C	Method: closed cup
Explosion Limits	Lower: 3 %	
Flammability	N/A	
Autoignition Temp	165 °C	
Refractive Index	1.435	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	Solubility in Water: Miscible.	

N/A = not available

---

## Section 10 - Stability and Reactivity

---

### STABILITY

Stable: Stable.

Materials to Avoid: Acids, Acid chlorides, Acid anhydrides, Strong oxidizing agents Carbon dioxide.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

---

## Section 11 - Toxicological Information

---

### ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: Harmful if absorbed through skin.

Eye Contact: Causes burns.

Inhalation: Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

### SIGNS AND SYMPTOMS OF EXPOSURE

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### TOXICITY DATA

Skin

Rabbit

1,240 mg/kg

LD50

Oral

Rat

1960 mg/kg

LD50

Skin  
Rat  
1820 mg/kg  
LD50  
Remarks: Skin and Appendages:Skin: After systemic exposure:  
Dermatitis, other

Oral  
Mouse  
1970 mg/kg  
LD50

Inhalation  
Mouse  
25,200 mg/m3  
LC50

Skin  
Rabbit  
1350 UL/KG  
LD50

Oral  
Mammal  
1917 mg/kg  
LD50

#### IRRITATION DATA

Skin  
Rabbit  
460 mg  
Remarks: Open irritation test

Eyes  
Rabbit  
0.92 mg  
Remarks: Severe irritation effect

Eyes  
Rabbit  
20 mg  
24H  
Remarks: Mild irritation effect

#### CHRONIC EXPOSURE - TERATOGEN

Species: Rat  
Dose: 9 GM/KG  
Route of Application: Oral  
Exposure Time: (6-15D PREG)  
Result: Specific Developmental Abnormalities: Central nervous  
system. Specific Developmental Abnormalities: Craniofacial  
(including nose and tongue). Specific Developmental  
Abnormalities: Musculoskeletal system.

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#### Section 12 - Ecological Information

No data available.

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#### Section 13 - Disposal Considerations

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#### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

---

#### Section 14 - Transport Information

---

##### DOT

Proper Shipping Name: 4-Methylmorpholine [or]  
n-methylmorpholine  
UN#: 2535  
Class: 3  
Packing Group: Packing Group II  
Hazard Label: Flammable liquid  
Hazard Label: Corrosive  
PIH: Not PIH

##### IATA

Proper Shipping Name: 4-Methylmorpholine  
IATA UN Number: 2535  
Hazard Class: 3  
Packing Group: II

---

#### Section 15 - Regulatory Information

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##### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F-C  
Indication of Danger: Highly Flammable. Corrosive.  
R: 11-20/21/22-34  
Risk Statements: Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns.  
S: 16-26-36/37/39-45  
Safety Statements: Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

##### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Highly Flammable (EU). Corrosive.  
Risk Statements: Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns.  
Safety Statements: Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

##### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No  
TSCA INVENTORY ITEM: Yes

##### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.  
DSL: Yes

NDSL: No

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Section 16 - Other Information

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DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

W. H. H. H.

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Updated

10/10/10

# Zach Cleaning Inventory

MATERIAL ID	INTERNAL DESC	LOT ID	WHSE ID	LOCATION	GROUP NO	CONTAINER STATUS	CONT ATT ATTRIBUTE	UOM	QTY
✓	CDI - Carbonyl Diimidazole Total	YS							72.1
✓	Isopropanol Total								531
✓	Heptane Total <i>liter</i>								359.3
○	Z-Valine Total								749.1
○	4-Nitrophenyl Chloroformate Total								1076
✓	Triethylamine Total								599
✓	Imidazole Total								2400
✓	Tributylamine Total								6891
○	SCA-NCA Total								2148.6
○	N-Methyl Morpholine Total								250
○	Dry Sodium Hydrosulfite (88%) Total								756
○	Z-L-Valine-NCA Total								312.6
✓	Acetic Anhydride Total								1973
✓	<del>Barnhard XX Multilayer bag</del> Total								876
✓	Potassium Carbonate Total								153.2
✓	CIP-100 Cleaning Solution (Steris)								214.5
✓	1,4-Dioxane Total								575.7
✓	4-(2-aminoethyl)-morpholine Total								180
✓	Parco G-60 Total - <i>activated carbon</i>								273
✓	Di-Butyl Ether Total								391.2
✓	Di-Isopropyl Ether Total								149.7
✓	Ammonium Chloride-<TECHNICAL>								6589.2
✓	L-tert-Leucine Total								31
✓	Dicyclohexylamine Total								75
	Grand Total								27626.2

MATERIAL ID	NAME	LOT ID	WHSZ ID	LOCATION	GROUP NO	CONTAINER STATUS	CONT. ATT	UOM	QTY	CONTAINER ID	Disposition
037	CDI - Carbonyl Diimidazole	2-0803-9412-00	OLD SHIP WAREHOUSE	ANY	0	QUARANTINED	TO BE SAMPLED	KLG	13.7	0536512	D
037	CDI - Carbonyl Diimidazole	2-0607-0503-00	OLD SHIP WAREHOUSE	ANY	0	FULL RELEASE	AVAILABLE	KLG	13.1	0426326	D
037	CDI - Carbonyl Diimidazole	2-0511-6202-00	OLD SHIP WAREHOUSE	ANY	0	QUARANTINED	EXPIRED	KLG	12.2	0383581	D
037	CDI - Carbonyl Diimidazole	2-0511-5857-00	OLD SHIP WAREHOUSE	ANY	0	QUARANTINED	EXPIRED	KLG	18.1	0380328	D
037	CDI - Carbonyl Diimidazole	2-0511-5856-00	OLD SHIP WAREHOUSE	ANY	0	FULL RELEASE	AVAILABLE	KLG	15	0379850	D
045	CDI - Carbonyl Isopropanol	2-0407-7174-00	LPE FLAMMABLE	H-2-4	0	REJECTED	TO BE DESTROYED	KLG	72.1	177 0385996	D
045	Isopropanol	2-0407-7174-00	LPE FLAMMABLE	H-2-4	0	REJECTED	TO BE DESTROYED	KLG	177	0385997	D
045	Isopropanol	2-0407-7174-00	LPE FLAMMABLE	H-2-4	0	REJECTED	TO BE DESTROYED	KLG	177	0385998	D
048	Isopropanol Total								531		
048	Heptane	2-0705-5585-00	LPE FLAMMABLE	H-2-6	0	FULL RELEASE	AVAILABLE	LTR	359.3	0502078	D
055	Heptane Total								359.3		
055	Z-Valine	2-0608-0889-00	LPE WAREHOUSE	F-1-8	0	REJECTED	TO BE REWORKED	KLG	225	0525103	D
055	Z-Valine	2-0710-7953-00	LPE WAREHOUSE	F-1-1	0	REJECTED	TO BE REWORKED	KLG	5.9	0526881	D
055	Z-Valine	2-0801-9141-00	LPE WAREHOUSE	F-1-1	0	QA HOLD	DO NOT USE	KLG	18.2	0533641	D
055	Z-Valine	2-0805-9734-00	PHARMA WASTE PAD	ANY	0	REJECTED	TO BE DESTROYED	KLG	500	0539140	D
112	Z-Valine Total								749.1		
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542124	D
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542123	D
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542125	D
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542126	D
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542127	D
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542128	D
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK LOT	U61773	0	QUARANTINED	TO BE SAMPLED	KLG	25	0542129	D

112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542130	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542131	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542132	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542133	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542134	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542135	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542136	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542137	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542138	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542139	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542140	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542141	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542142	D
112	4-Nitrophenyl Chloroformate	2-0809-0010- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	4.3 0542143	D
112	4-Nitrophenyl Chloroformate	2-0809-0011- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542144	D
112	4-Nitrophenyl Chloroformate	2-0809-0011- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542145	D
112	4-Nitrophenyl Chloroformate	2-0809-0011- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542146	D
112	4-Nitrophenyl Chloroformate	2-0809-0011- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542147	D
112	4-Nitrophenyl Chloroformate	2-0809-0011- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542148	D

112	4-Nitrophenyl Chloroformate	2-0809-0012- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	11.8 0542149	D
112	4-Nitrophenyl Chloroformate	2-0809-0013- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	3.9 0542150	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542151	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542152	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542153	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542154	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542155	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542156	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542157	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542158	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542159	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542160	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542161	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542162	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542163	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542164	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542165	D
112	4-Nitrophenyl Chloroformate	2-0809-0015- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	25 0542166	D
112	4-Nitrophenyl Chloroformate	2-0809-0017- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	17 0542167	D
112	4-Nitrophenyl Chloroformate	2-0809-0018- 00	REFER TRUCK LOT	U61773	0 QUARANTIN ED	TO BE SAMPLED	KLG	14 0542168	D

	4-Nitrophenyl							1076	
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTINED	Use for TDF, fresh one if we restart	KLK	149.75 0488951	D
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTINED	Use for TDF, fresh one if we restart	KLK	149.75 0488952	D
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTINED	Use for TDF, fresh one if we restart	KLK	149.75 0488953	D
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTINED	Use for TDF, fresh one if we restart	KLK	149.75 0488954	D
	Triethylamine Total							599	
208	Imidazole	2-0804-9576-00	OLD SHIP WAREHOUSE	ANY	0 QUARANTINED	no usage	KLK	2400 0537713	D
	Imidazole Total							2400	
209	Tributylamine	2-0804-9584-00	NORTH DRUM STORAGE	ANY	0 QUARANTINED	TO BE SAMPLED	KLK	6891 0537723	D
	Tributylamine Total							6891	
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	14 0386914	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386865	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386866	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386867	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386868	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386869	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386870	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386871	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386872	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386873	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386874	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386875	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386876	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386877	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386878	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386879	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386880	D

358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386881	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386882	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386883	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386884	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386885	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386886	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386887	D
358	SCA-NCA	2-0512-6725-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0386888	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388536	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388537	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388538	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	4.6 0388539	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388513	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388514	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388515	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388516	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388517	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388518	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388519	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388520	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388521	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388522	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388523	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388524	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388525	D
358	SCA-NCA	2-0512-6784-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLK	30 0388526	D



358	SCA-NCA	2-0512-6785-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLG	30 0388069	D
358	SCA-NCA	2-0512-6785-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLG	30 0388070	D
358	SCA-NCA	2-0512-6785-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLG	30 0388071	D
358	SCA-NCA	2-0512-6785-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLG	30 0388072	D
<b>SCA-NCA Total</b>								2148.6	
378	N-Methyl Morpholine	2-0602-7735-00	LPE FLAMMABLE	H-1-3	0 QUARANTINED	EXPIRED	KLG	125 0526092	D
378	N-Methyl Morpholine	2-0602-7735-00	LPE FLAMMABLE	H-1-3	0 QUARANTINED	EXPIRED	KLG	125 0526093	D
<b>N-Methyl</b>								250	
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTINED	EXPIRED No needs in 2009	KLG	113.4 0471004	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTINED	EXPIRED No needs in 2010	KLG	113.4 0471005	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTINED	EXPIRED No needs in 2011	KLG	113.4 0471006	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTINED	EXPIRED No needs in 2012	KLG	113.4 0471007	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-3-4	0 QUARANTINED	EXPIRED No needs in 2013	KLG	113.4 0471008	D
432	Dry Sodium Hydrosulfite (88%)	2-0602-7691-00	LPE WAREHOUSE	F-3-4	0 QUARANTINED	EXPIRED No needs in 2015	KLG	75.5 0394031	D
432	Dry Sodium Hydrosulfite (88%)	2-0602-7691-00	LPE WAREHOUSE	F-3-4	0 QUARANTINED	EXPIRED No needs in 2016	KLG	113.5 0394030	D
<b>Dry Sodium</b>								756	
437	Z-L-Valine-NCA	2-0301-7095-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLG	20.8 0338957	D
437	Z-L-Valine-NCA	2-0402-4173-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	40 0108525	D
437	Z-L-Valine-NCA	2-0604-8617-00	REFER TRUCK LOT	U61773	0 REJECTED	TO BE REWORKED	KLG	35.5 0406317	D
437	Z-L-Valine-NCA	2-0503-2223-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	25.6 0201543	D
437	Z-L-Valine-NCA	2-0606-9701-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	21.5 0414812	D
437	Z-L-Valine-NCA	2-0604-8618-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	29.4 0407688	D
437	Z-L-Valine-NCA	2-0504-2422-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	4.3 0203951	D
437	Z-L-Valine-NCA	2-0605-9053-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	20.7 0408979	D
437	Z-L-Valine-NCA	2-0606-9614-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	47.6 0411764	D
437	Z-L-Valine-NCA	2-0606-9614-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	46.4 0411765	D
437	Z-L-Valine-NCA	2-0606-9614-00	REFER TRUCK LOT	128419	0 QUARANTINED	EXPIRED	KLG	20.8 0411766	D
<b>Z-L-Valine-NCA</b>								312.6	
458	Acetic Anhydride	2-0612-3124-00	LPE FLAMMABLE	ANY	0 QUARANTINED	EXPIRED NO NEED	KLG	223 0461820	D
458	Acetic Anhydride	2-0612-3123-00	LPE FLAMMABLE	ANY	0 QUARANTINED	EXPIRED NO NEED	KLG	223 0461818	D
458	Acetic Anhydride	2-0612-3105-00	LPE FLAMMABLE	ANY	0 QUARANTINED	EXPIRED NO NEED	KLG	223 0461566	D

458	Acetic Anhydride	2-0612-3105-00	LPE FLAMMABLE	ANY	0 QUARANTIN ED	EXPIRED NO NEED	KLK	223 0461568	D
458	Acetic Anhydride	2-0612-3104-00	LPE FLAMMABLE	ANY	0 QUARANTIN ED	EXPIRED NO NEED	KLK	222.75 0461562	D
458	Acetic Anhydride	2-0612-3104-00	LPE FLAMMABLE	ANY	0 QUARANTIN ED	EXPIRED NO NEED	KLK	222.75 0461563	D
458	Acetic Anhydride	2-0612-3104-00	LPE FLAMMABLE	ANY	0 QUARANTIN ED	EXPIRED NO NEED	KLK	222.75 0461564	D
458	Acetic Anhydride	2-0612-3104-00	LPE FLAMMABLE	ANY	0 QUARANTIN ED	EXPIRED NO NEED	KLK	222.75 0461565	D
458	Acetic Anhydride	2-0304-8639-00	LPE WAREHOUSE	ANY	0 QUARANTIN ED	EXPIRED NO NEED	KLK	190 0350663	D
433	<b>Acetic Anhydride</b> Bernhardt XX Multilayer bag	2-0404-5481-00	LPE WAREHOUSE	ANY	0 QUARANTIN ED	EXPIRED	EA	1973 876 0381706	D
474	<b>Bernhardt XX</b> Potassium Carbonate	2-0710-7878-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	876 22.6 0520026	D
474	Potassium Carbonate	2-0710-7878-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	22.6 0520025	D
474	Potassium Carbonate	2-0710-7878-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	22.6 0520027	D
474	Potassium Carbonate	2-0710-7878-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	22.6 0520028	D
474	Potassium Carbonate	2-0710-7878-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	22.6 0520029	D
474	Potassium Carbonate	2-0704-4959-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	17.6 0486808	D
474	Potassium Carbonate	2-0704-4959-00	LPE WAREHOUSE	C-3-2	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	22.6 0486811	D
502	<b>Potassium</b> CIP-100 Cleaning Solution (Steris)	2-0602-7567-00	LPE WAREHOUSE	F-3-3	0 FULL RELEASE	AVAILABLE	KLK	153.2 214.5 0393023	D
504	<b>CIP-100 Cleaning</b> 1,4-Dioxane	2-0601-7500-00	LPE FLAMMABLE	H-2-1	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	214.5 214.5 0392539	D
504	1,4-Dioxane	2-0601-7500-00	LPE FLAMMABLE	H-2-1	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	214.5 0392540	D
504	1,4-Dioxane	2-0506-3666-00	LPE FLAMMABLE	H-2-1	0 QUARANTIN ED	EXPIRED NO NEEDS	KLK	146.7 0220583	D
512	<b>1,4-Dioxane Total</b> 4-(2-aminoethyl)- morpholine	2-0507-4309-00	LPE WAREHOUSE	ANY	0 QUARANTIN ED	EXPIRED	KLK	575.7 180 0227455	D
538	<b>4-(2-aminoethyl)-</b> Darco G-60	2-0512-6933-00	LPE WAREHOUSE	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	180 18.2 0387479	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUSE	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387481	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUSE	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387482	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUSE	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387483	D

538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387484	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387485	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387486	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387487	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387489	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387491	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387492	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387493	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387494	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387495	D
538	Darco G-60	2-0512-6933-00	LPE WAREHOUS E	E-2-4	0 QUARANTIN ED	EXPIRED NO USE	KLK	18.2 0387496	D
	<b>Darco G-60 Total</b>							273	
546	Di-Butyl Ether	2-0604-8651-00	LPE FLAMMABL E	ANY	0 QUARANTIN ED	EXPIRED	KLK	102.9 0403078	D
546	Di-Butyl Ether	2-0604-8651-00	LPE FLAMMABL E	ANY	0 QUARANTIN ED	EXPIRED	KLK	158.8 0403077	D
546	Di-Butyl Ether	2-0604-8651-00	LPE FLAMMABL E	ANY	0 QUARANTIN ED	EXPIRED	KLK	15.1 0403081	D
546	Di-Butyl Ether	2-0604-8651-00	LPE FLAMMABL E	ANY	0 QUARANTIN ED	EXPIRED	KLK	114.4 0403080	D
	<b>Di-Butyl Ether Total</b>							391.2	
547	Di-Isopropyl Ether	2-0708-6948-00	LPE FLAMMABL E	G-3-6	0 QUARANTIN ED	EXPIRED	KLK	149.7 0510476	D
	<b>Di-Isopropyl Ether</b>							149.7	
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459135	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459134	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459136	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459137	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459138	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459139	D



552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459159	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459160	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459161	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459162	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459163	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459164	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459165	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459166	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459167	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459168	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459169	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459171	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459172	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459173	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459174	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459175	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459176	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459302	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459303	D





552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459342	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459343	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459344	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459345	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459102	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459103	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459104	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459111	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459112	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459113	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459114	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459115	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459116	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459117	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459118	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459125	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459126	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459127	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459128	D

552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459129	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459130	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459131	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459133	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459346	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459347	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459348	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459349	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459350	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459351	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459352	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459353	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459354	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459355	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459356	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459357	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459358	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459359	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459360	D

552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459361	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459362	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459363	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459364	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459365	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459366	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459367	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459368	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459369	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459370	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459371	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459372	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459373	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459374	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459375	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459376	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459377	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459378	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459379	D





552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459215	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459216	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459217	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459218	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459219	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459220	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459221	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459222	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459088	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459089	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459090	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459091	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459092	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459093	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459094	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459095	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459099	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-2-3	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459100	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459415	D



552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459386	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459413	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459387	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459388	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459389	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459390	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459391	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459392	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459414	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459393	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459394	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459395	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459396	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459397	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459398	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459399	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459400	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459401	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLK	20.4 0459402	D

552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459403	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459404	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459405	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459406	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459407	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459408	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459409	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459410	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459411	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-4-5	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459412	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459272	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459273	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459274	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459275	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459276	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459277	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459278	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459279	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459280	D



552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459300	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-6	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459301	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459223	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459224	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459225	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459226	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459227	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	F-1-4	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459228	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459229	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459230	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459231	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459232	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459233	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459234	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459235	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459236	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459237	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459238	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459239	D

[illegible]

552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459259	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459260	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459261	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459262	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459263	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459264	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459265	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459266	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459267	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459268	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459269	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459270	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919- 00	LPE WAREHOUS E	E-4-8	0 QUARANTIN ED	EXPIRED NO NEED, AZIDE	KLG	20.4 0459271	D
565	Ammonium L-tert-Leucine	2-0701-3306- 00	LPE WAREHOUS E	E-2-6	0 QUARANTIN ED	EXPIRED	KLG	6589.2 31 0465401	D
566	L-tert-Leucine Total Dicyclohexylamine	2-0701-3372- 00	LPE FLAMMABL E	G-2-6	0 QUARANTIN ED	EXPIRED	KLG	31 75 0465851	D
	Dicyclohexylamine Grand Total							75 27626.2	

MATERIAL D	MATERIAL_DESC	LOT_ID	WHSE_ID	LOCATION	GROUP_NO	CONTAINER STATUS	CONT_ATT RIBUTE	UOM	QTY
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✓	CDI - Carbonyl Diimidazole Total								72.1
✓	Isopropanol Total								531
✓	Heptane Total								359.3
✓	Z-Valine Total								749.1
✓	4-Nitrophenyl Chloroformate Total								1076
✓	Triethylamine Total								599
✓	Imidazole Total								2400
✓	Tributylamine Total								6891
✓	SCA-NCA Total								2148.6
✓	N-Methyl Morpholine Total								250
✓	Dry Sodium Hydrosulfite (88%) Total								756
✓	Z-L-Valine-NCA Total								312.6
✓	Acetic Anhydride Total								1973
✓	Bernhardt XX Multilayer bag Total								876
✓	Potassium Carbonate Total								153.2
✓	CIP-100 Cleaning Solution (Steris)								214.5
✓	1,4-Dioxane Total								575.7
✓	4-(2-aminoethyl)-morpholine Total								180
✓	Parco G-80 Total - activated carbon								273
✓	Di-Butyl Ether Total								391.2
✓	Di-Isopropyl Ether Total								149.7
✓	Ammonium Chloride-<TECHNICAL>								6589.2
✓	L-tert-Leucine Total								31
✓	Dicyclohexylamine Total								75
	Grand Total								27626.2

*Private*

*for*

*Updated*

*004017546*

11

MATERIAL ID	DESCRIPTION	LOT NO	QUANTITY	LOCATION	GROUP NO	CONTAINER	STATUS	DATE	QTY
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✓	CDI - Carbonyl Diimidazole		72.1						
✓	Isopropanol Total		531						
✓	Heptane Total		359.3						
✓	Z-Valine Total		5067.1						
✓	4-Nitrophenyl Chloroformate		1076						
✓	Triethylamine Total		599						
✓	Imidazole Total		2400						
✓	Tributylamine Total		6891						
✓	VE3232S Total		1088						
✓	SCA-NCA Total		2148.6						
✓	N-Methyl Morpholine Total		250						
✓	Dry Sodium Hydrosulfite (88%)		756						
✓	Z-L-Valine-NCA Total		1245.5						
✓	Acetic Anhydride Total		1973						
✓	Bernhardt XX Multilayer bag		876						
✓	Potassium Carbonate Total		153.2						
✓	CIP-100 Cleaning Solution		214.5						
✓	1,4-Dioxane Total		575.7						
✓	4-(2-aminoethyl)-morpholine		180						
✓	Darco G-60 Total		273						
✓	Di-Butyl Ether Total		391.2						
✓	Di-Isopropyl Ether Total		149.7						
✓	Ammonium Chloride-		6589.2						
✓	L-tert-Leucine Total		31						
✓	Dicyclohexylamine Total		75						
	NMP Total		1610.5						

diff. gty - list 2

Not present in list 2

diff gty - list 2

Not present in list 2

DATE	DESCRIPTION	DATE	NAME	LOCATION	GROUP	CONTAINER	CONT. ATTRIB	UOM	QTY	CONTAINER ID	Disposition
037	CDI - Carbonyl Dimidazole	2-0803-9412-00	OLD SHIP	ANY		0 QUARANTI	TO BE SAMPLED	KLG	13.7	0536512	D
037	CDI - Carbonyl Dimidazole	2-0607-0503-00	OLD SHIP	ANY		0 FULL	AVAILABLE	KLG	13.1	0426326	D
037	CDI - Carbonyl Dimidazole	2-0511-6202-00	OLD SHIP	ANY		0 QUARANTI	EXPIRED	KLG	12.2	0380581	D
037	CDI - Carbonyl Dimidazole	2-0511-5857-00	OLD SHIP	ANY		0 QUARANTI	EXPIRED	KLG	18.1	0380328	D
037	CDI - Carbonyl Dimidazole	2-0511-5856-00	OLD SHIP	ANY		0 FULL	AVAILABLE	KLG	15	0379850	D
	<b>CDI - Carbonyl</b>								72.1		
045	Isopropanol	2-0407-7174-00	LPE	H-2-4		0 REJECTE	TO BE	KLG	177	0385996	D
045	Isopropanol	2-0407-7174-00	LPE	H-2-4		0 REJECTE	TO BE	KLG	177	0385997	D
045	Isopropanol	2-0407-7174-00	LPE	H-2-4		0 REJECTE	TO BE	KLG	177	0385998	D
	<b>Isopropanol Total</b>								531		
048	Heptane	2-0705-5585-00	LPE	H-2-6		0 FULL	AVAILABLE	LTR	359.3	0502078	D
	<b>Heptane Total</b>								359.3		
055	Z-Valine	2-0608-0889-00	LPE	F-1-8		0 REJECTE	TO BE	KLG	225	0525103	D
055	Z-Valine	2-0710-7953-00	LPE	F-1-1		0 REJECTE	TO BE	KLG	5.9	0526881	D
055	Z-Valine	2-0801-9141-00	LPE	F-1-1		0 QA HOLD	DO NOT USE	KLG	18.2	0533641	D
055	Z-Valine	2-0805-9734-00	PHARMA	ANY		0 REJECTE	TO BE	KLG	500	0539140	D
	<b>Z-Valine Total</b>								749.1		
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542124	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542123	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542125	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542126	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542127	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542128	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542129	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542130	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542131	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542132	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542133	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542134	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542135	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542136	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542137	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542138	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542139	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542140	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542141	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542142	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0010-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	4.3	0542143	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0011-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542144	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0011-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542145	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0011-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542146	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0011-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542147	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0011-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542148	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0012-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	11.8	0542149	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0013-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	3.9	0542150	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542151	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542152	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542153	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542154	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542155	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542156	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542157	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542158	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542159	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542160	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542161	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542162	D
			LOT			NED					
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK	U61773		0 QUARANTI	TO BE SAMPLED	KLG	25	0542163	D
			LOT			NED					

112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK LOT	U61773	0 QUARANTI TO BE SAMPLED NED	KLG	25 0542164	D
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK LOT	U61773	0 QUARANTI TO BE SAMPLED NED	KLG	25 0542165	D
112	4-Nitrophenyl Chloroformate	2-0809-0015-00	REFER TRUCK LOT	U61773	0 QUARANTI TO BE SAMPLED NED	KLG	25 0542166	D
112	4-Nitrophenyl Chloroformate	2-0809-0017-00	REFER TRUCK LOT	U61773	0 QUARANTI TO BE SAMPLED NED	KLG	17 0542167	D
112	4-Nitrophenyl Chloroformate	2-0809-0018-00	REFER TRUCK LOT	U61773	0 QUARANTI TO BE SAMPLED NED	KLG	14 0542168	D
	<b>4-Nitrophenyl</b>						1076	
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTI Use for TDF, fresh one if we restart	KLG	149.75 0488951	D
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTI Use for TDF, fresh one if we restart	KLG	149.75 0488952	D
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTI Use for TDF, fresh one if we restart	KLG	149.75 0488953	D
148	Triethylamine	2-0704-5100-00	LPE FLAMMABLE	ANY	0 QUARANTI Use for TDF, fresh one if we restart	KLG	149.75 0488954	D
	<b>Triethylamine Total</b>						599	
208	Imidazole	2-0804-9576-00	OLD SHIP	ANY	0 QUARANTI no usage	KLG	2400 0537713	D
	<b>Imidazole Total</b>						2400	
209	Tributylamine	2-0804-9584-00	NORTH DRUM	ANY	0 QUARANTI TO BE SAMPLED	KLG	6891 0537723	D
	<b>Tributylamine Total</b>						6891	
378	N-Methyl Morpholine	2-0602-7735-00	LPE	H-1-3	0 QUARANTI EXPIRED	KLG	125 0526092	D
378	N-Methyl Morpholine	2-0602-7735-00	LPE	H-1-3	0 QUARANTI EXPIRED	KLG	125 0526093	D
	<b>N-Methyl Morpholine Total</b>						250	
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTI EXPIRED No needs NED in 2009	KLG	113.4 0471004	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTI EXPIRED No needs NED in 2010	KLG	113.4 0471005	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTI EXPIRED No needs NED in 2011	KLG	113.4 0471006	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-4-4	0 QUARANTI EXPIRED No needs NED in 2012	KLG	113.4 0471007	D
432	Dry Sodium Hydrosulfite (88%)	2-0701-3725-00	LPE WAREHOUSE	F-3-4	0 QUARANTI EXPIRED No needs NED in 2013	KLG	113.4 0471008	D
432	Dry Sodium Hydrosulfite (88%)	2-0602-7691-00	LPE WAREHOUSE	F-3-4	0 QUARANTI EXPIRED No needs NED in 2015	KLG	75.5 0394031	D
432	Dry Sodium Hydrosulfite (88%)	2-0602-7691-00	LPE WAREHOUSE	F-3-4	0 QUARANTI EXPIRED No needs NED in 2016	KLG	113.5 0394030	D
	<b>Dry Sodium Hydrosulfite</b>						756	
458	Acetic Anhydride	2-0612-3124-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	223 0461820	D
458	Acetic Anhydride	2-0612-3123-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	223 0461818	D
458	Acetic Anhydride	2-0612-3105-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	223 0461566	D
458	Acetic Anhydride	2-0612-3105-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	223 0461568	D
458	Acetic Anhydride	2-0612-3104-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	222.75 0461562	D
458	Acetic Anhydride	2-0612-3104-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	222.75 0461563	D
458	Acetic Anhydride	2-0612-3104-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	222.75 0461564	D
458	Acetic Anhydride	2-0612-3104-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	222.75 0461565	D
458	Acetic Anhydride	2-0304-8639-00	LPE	ANY	0 QUARANTI EXPIRED NO	KLG	190 0350663	D
	<b>Acetic Anhydride Total</b>						1973	
433	Bernhardt XX Multilayer bag	2-0404-5481-00	LPE WAREHOUSE	ANY	0 QUARANTI EXPIRED NED	EA	876 0381706	D
	<b>Bernhardt XX Multilayer</b>						876	
474	Potassium Carbonate	2-0710-7878-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	22.6 0520026	D
474	Potassium Carbonate	2-0710-7878-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	22.6 0520025	D
474	Potassium Carbonate	2-0710-7878-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	22.6 0520027	D
474	Potassium Carbonate	2-0710-7878-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	22.6 0520028	D
474	Potassium Carbonate	2-0710-7878-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	22.6 0520029	D
474	Potassium Carbonate	2-0704-4959-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	17.6 0486808	D
474	Potassium Carbonate	2-0704-4959-00	LPE	C-3-2	0 QUARANTI EXPIRED NO	KLG	22.6 0486811	D
	<b>Potassium Carbonate</b>						153.2	
502	CIP-100 Cleaning Solution (Stens)	2-0602-7567-00	LPE WAREHOUSE	F-3-3	0 FULL AVAILABLE RELEASE	KLG	214.5 0393023	D
	<b>CIP-100 Cleaning Solution</b>						214.5	
504	1,4-Dioxane	2-0601-7500-00	LPE	H-2-1	0 QUARANTI EXPIRED NO	KLG	214.5 0392539	D
504	1,4-Dioxane	2-0601-7500-00	LPE	H-2-1	0 QUARANTI EXPIRED NO	KLG	214.5 0392540	D
504	1,4-Dioxane	2-0506-3666-00	LPE	H-2-1	0 QUARANTI EXPIRED NO	KLG	146.7 0220583	D
	<b>1,4-Dioxane Total</b>						575.7	
512	4-(2-aminoethyl)-morpholine	2-0507-4309-00	LPE WAREHOUSE	ANY	0 QUARANTI EXPIRED NED	KLG	180 0227455	D
	<b>4-(2-aminoethyl)-</b>						180	
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387479	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387481	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387482	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387483	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387484	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387485	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387486	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387487	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387489	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387491	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387492	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387493	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387494	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387495	D
538	Darco G-60	2-0512-6933-00	LPE	E-2-4	0 QUARANTI EXPIRED NO USE	KLG	18.2 0387496	D
	<b>Darco G-60 Total</b>						273	
546	Di-Butyl Ether	2-0604-8651-00	LPE	ANY	0 QUARANTI EXPIRED	KLG	102.9 0403078	D
546	Di-Butyl Ether	2-0604-8651-00	LPE	ANY	0 QUARANTI EXPIRED	KLG	158.8 0403077	D
546	Di-Butyl Ether	2-0604-8651-00	LPE	ANY	0 QUARANTI EXPIRED	KLG	15.1 0403081	D
546	Di-Butyl Ether	2-0604-8651-00	LPE	ANY	0 QUARANTI EXPIRED	KLG	114.4 0403080	D
	<b>Di-Butyl Ether Total</b>						391.2	
547	Di-Isopropyl Ether	2-0708-6948-00	LPE	G-3-6	0 QUARANTI EXPIRED	KLG	149.7 0510476	D
	<b>Di-Isopropyl Ether Total</b>						149.7	
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUSE	F-1-3	0 QUARANTI EXPIRED NO NED NEED, AZIDE	KLG	20.4 0459135	D

[illegible]




[illegible]

[illegible]

[illegible]

[illegible]

552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUSE	E-4-8	0 QUARANTI EXPIRED NO NED NEED, AZIDE	KLG	20.4 0459268	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUSE	E-4-8	0 QUARANTI EXPIRED NO NED NEED, AZIDE	KLG	20.4 0459269	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUSE	E-4-8	0 QUARANTI EXPIRED NO NED NEED, AZIDE	KLG	20.4 0459270	D
552	Ammonium Chloride- <TECHNICAL>	2-0612-2919-00	LPE WAREHOUSE	E-4-8	0 QUARANTI EXPIRED NO NED NEED, AZIDE	KLG	20.4 0459271	D
	<b>Ammonium Chloride-</b>						6589.2	
565	L-tert-Leucine	2-0701-3306-00	LPE	E-2-6	0 QUARANTI EXPIRED	KLG	31 0465401	D
	<b>L-tert-Leucine Total</b>						31	
566	Dicyclohexylamine	2-0701-3372-00	LPE	G-2-6	0 QUARANTI EXPIRED	KLG	75 0465851	D
	<b>Dicyclohexylamine Total</b>						75	
	<b>Grand Total</b>						25165	

 <b>PPG INDUSTRIES, INC.</b> <b>FINE CHEMICALS – LA PORTE, TX</b> <b>TITLE: 4-piperidone HCl monohydrate</b>	<b>DOCUMENT #:</b> RM 588
	<b>REVISION DATE:</b> 3/23/2009
	<b>PAGE</b> 1 OF 1

Item Code Number: **588**

Item Name: **4-piperidone HCl monohydrate**

Synonyms: 4,4-Piperidinediol hydrochloride Item Grade: Commercial

Re-Evaluation Period: 1 year

Storage Code:

Chem. Formula:  $C_5H_9NO \cdot HCl \cdot H_2O$

Molecular Wt: 153.61

CAS: 40064-34-4

Approved Suppliers

**D&O**


Manufacturer

**Vasudha Pharma Chem Limited**

Safety/Sampling/Retainer Requirements:

SHIS:

<u>Test Name</u>	<u>Method Number</u>	<u>Acceptance Ranges</u>
APPEARANCE	QC-TM-015	Pale yellow to light brown powder
IDENTIFICATION (FTIR)	QC-OP-006	Conforms to Standard Spectrum
Assay (TLC)	QC-TM-412	Consistent with 99% Standard
ASSAY (Silver Nitrate Titration)	QC-TM-413	NLT 99.0%
Water wt% (Karl Fisher)	QC-EQ-011	10.7 – 12.7%

 PPG INDUSTRIES, INC. FINE CHEMICALS – LA PORTE, TX	DOCUMENT #: <b>RM 588</b>
	REVISION DATE: <b>3/23/2009</b>
	PAGE 1 OF 1

Item Code Number: **588**

Item Name: **4-piperidone HCl monohydrate**

Synonyms: 4,4-Piperidinediol hydrochloride Item Grade: Commercial

Re-Evaluation Period: 1 year

Storage Code:

Chem. Formula:  $C_5H_9NO \cdot HCl \cdot H_2O$

Molecular Wt: 153.61

CAS: 40064-34-4

Approved Suppliers

**D&O**

Manufacturer

**Vasudha Pharma Chem Limited**

Safety/Sampling/Retainer Requirements:

SHIS:

<u>Test Name</u>	<u>Method Number</u>	<u>Acceptance Ranges</u>
APPEARANCE	QC-TM-015	Pale yellow to light brown powder
IDENTIFICATION (FTIR)	QC-OP-006	Conforms to Standard Spectrum
Assay (TLC)	QC-TM-412	Consistent with 99% Standard
ASSAY (Silver Nitrate Titration)	QC-TM-413	NLT 99.0%
Water wt% (Karl Fisher)	QC-EQ-011	10.7 – 12.7%



**Zach System Corp.**

914 South 16th Street

La Porte, TX. 77571

# Certificate of Analysis

**Product: 037**

CDI - Carbonyl Diimidazole

Sample ID: 347695

Lot: 2-0511-5857-00

Cntrs:

Print Date: 2009-03-23 08:34AM

Order No.:

Customer:

Destination:

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Appearance	NONE	OFF-WHITE SOLID			PASS
Assay, GC wt%	%	81.1	97.0		FAIL
Color, APHA - CDI	NONE	22	0.00	100	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD SPECTRUM			PASS

**Manufacturing / Packaging Date:** September 25, 2007

**Retest Date:** September 18, 2008

QC Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_



**Zach System Corp.**  
914 South 16th Street  
La Porte, TX. 77571

# Certificate of Analysis

**Product: 037**

CDI - Carbonyl Diimidazole

Sample ID: 347698

Lot: 2-0511-5856-00

Cntrs:

Print Date: 2009-03-23 08:34AM

Order No.:

Customer:

Destination:

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Appearance	NONE	OFF-WHITE SOLID			PASS
Assay, GC wt%	%	88.9	97.0		FAIL
Color, APHA - CDI	NONE	27	0.00	100	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD SPECTRUM			PASS

Manufacturing / Packaging Date: September 25, 2007

Retest Date: July 28, 2009

QC Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_



**Zach System Corp.**

914 South 16th Street

La Porte, TX. 77571

# Certificate of Analysis

**Product: 037**

CDI - Carbonyl Diimidazole

Sample ID: 347700

Lot: 2-0511-6202-00

Cntrs:

Order No.:

Customer:

Destination:

Print Date: 2009-03-23 08:35AM

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Appearance	NONE	OFF-WHITE SOLID			PASS
Assay, GC wt%	%	89.5	97.0		FAIL
Color, APHA - CDI	NONE	20	0.00	100	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD SPECTRUM			PASS

**Manufacturing / Packaging Date:** September 25, 2007

**Retest Date:** September 18, 2008

QC Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_



**Zach System Corp.**  
914 South 16th Street  
La Porte, TX. 77571

# Certificate of Analysis

**Product: 037**

CDI - Carbonyl Diimidazole

Sample ID: 347704

Lot: 2-0607-0503-00

Cntrs:

Print Date: 2009-03-23 08:36AM

Order No.:

Customer:

Destination:

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Appearance	NONE	OFF-WHITE SOLID			PASS
Assay, GC wt%	%	96.9	97.0		FAIL
Color, APHA - CDI	NONE	40	0.00	100	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD SPECTRUM			PASS

**Manufacturing / Packaging Date:** July 30, 2006

**Retest Date:** July 28, 2009

QC Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_



**Zach System Corp.**  
914 South 16th Street  
La Porte, TX. 77571

# Certificate of Analysis

**Product: 037**

CDI - Carbonyl Diimidazole

Sample ID: 347710

Lot: 2-0803-9412-00

Cntrs:

Print Date: 2009-03-23 08:48AM

Order No.:

Customer:

Destination:

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Appearance	NONE	OFF-WHITE SOLID			PASS
Assay, GC wt%	%	92.0	97.0		FAIL
Color, APHA - CDI	NONE	19	0.00	100	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD SPECTRUM			PASS

**Manufacturing / Packaging Date:** March 5, 2008

**Retest Date:** February 3, 2009

QC Authorization: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

PSC

**SIGMA-ALDRICH**

# Material Safety Data Sheet

Version 3.0  
Revision Date 08/24/2008  
Print Date 01/06/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : L-*tert*-Leucine

Product Number : 61825

Brand : Fluka

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

Emergency Phone # : (314) 776-6555

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>

Molecular Weight : 131.17 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>L-<i>tert</i>-Leucine</b>			
20859-02-3	-	-	-

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

No known OSHA hazards

### HMIS Classification

Health Hazard: 0

Flammability: 0

Physical hazards: 0

### NFPA Rating

Health Hazard: 0

Fire: 0

Reactivity Hazard: 0

### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Ingestion** May be harmful if swallowed.

## 4. FIRST AID MEASURES

Fluka - 61825

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

Page 1 of 5

EPAHO082001706

**If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**5. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point no data available

Ignition temperature no data available

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Avoid dust formation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

For prolonged or repeated contact use protective gloves.

**Eye protection**

Safety glasses

**Hygiene measures**

General industrial hygiene practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form powder

Colour white

**Safety data**

pH no data available

Melting point  $\geq 300\text{ }^{\circ}\text{C}$  ( $\geq 572\text{ }^{\circ}\text{F}$ )

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by OSHA.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

---

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### Ecotoxicity effects

no data available

### Further information on ecology

no data available

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## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations.

### Contaminated packaging

Dispose of as unused product.

---

## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

---

## 15. REGULATORY INFORMATION

### OSHA Hazards

No known OSHA hazards

### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

L-tert-Leucine

CAS-No.

20859-02-3

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

L-tert-Leucine

CAS-No.  
20859-02-3

Revision Date

**New Jersey Right To Know Components**

L-tert-Leucine

CAS-No.  
20859-02-3

Revision Date

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. OTHER INFORMATION****Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

HAZ

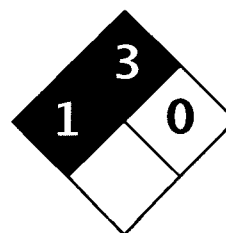
DOCI

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CAN WE SAY  
AS PRODUCT ?  
(light ends)



**Science Lab.com**  
Chemicals & Laboratory Equipment



Health	1
Fire	3
Reactivity	0
Personal Protection	G

## Material Safety Data Sheet n-heptane MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** n-heptane

**Catalog Codes:** SLH2152, SLH2998, SLH1675, SLH1948

**CAS#:** 142-82-5

**RTECS:** MI7700000

**TSCA:** TSCA 8(b) inventory: n-heptane

**CI#:** Not available.

**Synonym:** Dipropyl methane; Heptyl hydride

**Chemical Name:** Heptane

**Chemical Formula:** C<sub>7</sub>H<sub>16</sub>

#### Contact Information:

**Sciencelab.com, Inc.**  
14025 Smith Rd.  
Houston, Texas 77396

US Sales: **1-800-901-7247**  
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

**CHEMTREC (24HR Emergency Telephone), call:**  
1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
{n-}heptane	142-82-5	100

**Toxicological Data on Ingredients:** n-heptane: VAPOR (LC50): Acute: 103000 mg/m 4 hours [Rat].

### Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to lungs, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

**Serious Inhalation:**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion:**

If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

**Serious Ingestion:** Not available.

**Section 5: Fire and Explosion Data**

**Flammability of the Product:** Flammable.

**Auto-Ignition Temperature:** 203.89°C (399°F) - 223 C (433 F)

**Flash Points:** CLOSED CUP: -4°C (24.8°F). (TAG) OPEN CUP: -1.1111°C (30°F).

**Flammable Limits:** LOWER: 1.05% UPPER: 6.7%

**Products of Combustion:** These products are carbon oxides (CO, CO2).

**Fire Hazards in Presence of Various Substances:** Highly flammable in presence of open flames and sparks, of heat.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Slightly explosive in presence of heat.

**Fire Fighting Media and Instructions:**

Flammable liquid, insoluble in water.

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray or fog.

**Special Remarks on Fire Hazards:**

Flaming occurs when liquid chlorine in n-Heptane is added to added to red phosphorous.

Vapors may form explosive mixtures with air.

Vapor may travel considerable distance to source of ignition and flash back.

**Special Remarks on Explosion Hazards:** Vapors may form explosive mixtures in air.

**Section 6: Accidental Release Measures**

**Small Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill:**

Flammable liquid, insoluble in water.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section 7: Handling and Storage

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

**Storage:**

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:**

Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:**

TWA: 500 (ppm) from OSHA (PEL) [United States]  
TWA: 2000 (mg/m3) from OSHA (PEL) [United States]  
TWA: 350 CEIL: 1800 (mg/m3) from NIOSH [United States]  
TWA: 85 CEIL: 440 (ppm) from NIOSH [United States]  
TWA: 400 STEL: 500 (ppm) from ACGIH (TLV) [United States]  
TWA: 500 (ppm) [United Kingdom (UK)]  
TWA: 400 STEL: 500 (ppm) [Canada]  
TWA: 1640 STEL: 2049 (mg/m3) [Canada]  
TWA: 400 STEL: 500 (ppm) [Belgium]  
TWA: 200 (ppm) [Norway]  
TWA: 300 STEL: 500 (ppm) [Finland]  
TWA: 500 (ppm) [Austria] Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Liquid.

**Odor:** Hydrocarbon. Gasoline-like

**Taste:** Not available.

**Molecular Weight:** 100.21 g/mole

**Color:** Clear Colorless.

**pH (1% soln/water):** Not applicable.

**Boiling Point:** 98.4 (209.1°F)

**Melting Point:** -90.7°C (-131.3°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 0.6838 (Water = 1)

**Vapor Pressure:** 5.3 kPa (@ 20°C)

**Vapor Density:** 3.5 (Air = 1)

**Volatility:** Not available.

**Odor Threshold:** 150 ppm

**Water/Oil Dist. Coeff.:** The product is more soluble in oil; log(oil/water) = 4.7

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water, diethyl ether, acetone.

**Solubility:**

Soluble in diethyl ether, acetone.

Insoluble in cold water.

Soluble in alcohol.

Solubility in Chloroform, Petroleum Ether, Ether, Acetone: >10%

Floats on water.

### Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Heat, ignition sources (flames, sparks), incompatible materials

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Not considered to be corrosive for metals and glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

### Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Inhalation.

**Toxicity to Animals:**

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute toxicity of the vapor (LC50): 103000 mg/m<sup>3</sup> 4 hours [Rat].

**Chronic Effects on Humans:**

May cause damage to the following organs: lungs, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS).

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: Causes skin irritation. It can be absorbed through the skin.

Eyes: Contact with liquid may cause eye irritation. Contact with vapors is not expected to cause eye irritation.

Inhalation: Inhalation of vapor or mist causes respiratory tract and mucous membrane irritation. It can affect behavior/central nervous system and cause central nervous system effects (mild excitement followed CNS depression which is characterized by headache, nausea, dizziness, hilarity, hallucinations, lightheadness, distorted perceptions, convulsions, weakness, loss of judgement and coordination, narcosis, semi-consciousness, coma and death at higher doses). It may cause cardiac effects (irregular heartbeat/cardiac arrhythmias, or heart to stop beating), and pulmonary edema. It is readily absorbed by the inhalation route.

Ingestion: Causes gastrointestinal tract irritation with nausea, vomiting, swelling of the abdomen. Aspiration into the lungs can produce chemical pneumonitis. It can also affect behavior/central nervous system with symptoms paralleling those of inhalation.

Chronic Potential Health Effects:

Skin: Prolonged or repeated skin contact can defat the skin and product irritation and dermatitis.

Inhalation: Repeated or prolonged inhalation may affect behavior/central nervous system (symptoms similar to acute inhalation) and may produce minimal peripheral nerve damage (polyneuropathy) with numbness and tingling of the extremities in a stocking-and -glove pattern. Reversible of polyneuropathy as been reversible by a year following removal from exposure. It may also affect the brain, blood (anemia), and hearing (mild change in auditory threshold), and may also cause weight loss,

Ingestion: Prolonged or repeated ingestion may affect the liver, urinary system, blood (changes in blood serum composition).

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

**DOT Classification:** CLASS 3: Flammable liquid.

**Identification:** : Heptane UNNA: 1206 PG: II

**Special Provisions for Transport:** Not available.

### Section 15: Other Regulatory Information

**Federal and State Regulations:**

Connecticut hazardous material survey.: n-heptane  
Illinois toxic substances disclosure to employee act: n-heptane  
Rhode Island RTK hazardous substances: n-heptane  
Pennsylvania RTK: n-heptane  
Minnesota: n-heptane  
Massachusetts RTK: n-heptane  
Massachusetts spill list: n-heptane  
New Jersey: n-heptane  
California Director's List of Hazardous Substances: n-heptane  
TSCA 8(b) inventory: n-heptane  
TSCA 4(a) proposed test rules: n-heptane  
TSCA 8(d) H and S data reporting: n-heptane: Effective date: 1/26/94; Sunset date: 6/30/98

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):**

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).  
CLASS D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC):**

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 3

**Reactivity:** 0

**Personal Protection:** g

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 3

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves.

Lab coat.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Safety glasses.

## Section 16: Other Information

**References:** Not available.


**Other Special Considerations:** Not available.

**Created:** 10/09/2005 05:42 PM

**Last Updated:** 11/06/2008 12:00 PM

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.*

MSDS Number: **P0154** \* \* \* \* \* Effective Date: **02/01/07** \* \* \* \* \* Supersedes: **06/16/04**

<b>MSDS</b> <b>Material Safety Data Sheet</b>	
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865	
 <b>Mallinckrodt CHEMICALS</b> <b>J.T. Baker</b>	
24 Hour Emergency Telephone: 908-659-2151 CHEMTREC: 1-800-424-9300	
National Response in Canada CANUTEC: 610-966-4466	
Outside U.S. and Canada Chemtec: 703-527-3887	
NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.	
All non-emergency questions should be directed to Customer Service (1-800-562-2537) for assistance.	

## PARAFORMALDEHYDE

### 1. Product Identification

Synonyms: Polyoxymethylene; metaformaldehyde; paraform; formagene

CAS No.: 30525-89-4

Molecular Weight: 600

Chemical Formula: (CH<sub>2</sub>O)<sub>n</sub>

Product Codes:

J.T. Baker: S898

Mallinckrodt: 2621

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Paraformaldehyde	30525-89-4	100%	Yes

### 3. Hazards Identification

#### Emergency Overview

**DANGER! MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. SENSITIZER. SUSPECT CANCER HAZARD. EMITS FORMALDEHYDE WHICH MAY CAUSE CANCER. Risk of cancer depends upon duration and level of exposure. COMBUSTIBLE SOLID.**

**SAF-T-DATA<sup>(tm)</sup>** Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Cancer Causing)

Flammability Rating: 3 - Severe (Flammable)

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

Storage Color Code: Red (Flammable)

#### Potential Health Effects

##### Inhalation:

Highly irritating to upper respiratory tract. May cause inflammation of lining of nose, throat, and lungs with bronchopneumonia and edema possible from extremely irritating exposure.

##### Ingestion:

Causes severe irritation and inflammation of mouth, throat, and stomach. Severe stomach pains will follow with possible loss of consciousness.

##### Skin Contact:

Contact with dust causes drying, cracking, and scaling.

##### Eye Contact:

Exposure to high vapor concentrations or contact with dust causes tearing and severe irritation. Contact with dust causes severe burns.

##### Chronic Exposure:

Prolonged and repeated contact may cause allergic dermatitis or asthma. May harm the kidneys.

##### Aggravation of Pre-existing Conditions:

No information found.

## 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

**Fire:**

Flash point: 70C (158F) CC

Autoignition temperature: 300C (572F)

Flammable limits in air % by volume:

lcl: 7.0; ucl: 73

Combustible solid.

**Explosion:**

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Fire Extinguishing Media:**

Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## 7. Handling and Storage

Store in a tightly closed container. Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

Toxic formaldehyde gas may be produced if paraformaldehyde decomposes.

For Formaldehyde:

- OSHA Permissible Exposure Limit (PEL) -

0.5 ppm (Action Level), 0.75 ppm (TWA), 2 ppm (STEL), Cancer-Suspect Agent.

- ACGIH Threshold Limit Value (TLV) -

0.3 ppm (STEL/Ceiling), A2 - Suspected human carcinogen.

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with a formaldehyde cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Irritation also provides warning.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**Other Control Measures:**

See OSHA Standard for more information on personal protective equipment, engineering and work practice controls, medical surveillance, record keeping, and

reporting requirements. (29 CFR 1910.1048)

## 9. Physical and Chemical Properties

**Appearance:**

White powder.

**Odor:**

Pungent formaldehyde odor.

**Solubility:**

Slightly soluble in cold water.

**Density:**

1.45 g/ml @ 15C (59F)

**pH:**

5% in water is neutral to litmus.

**% Volatiles by volume @ 21C (70F):**

No information found.

**Boiling Point:**

Slowly sublimates to formaldehyde gas.

**Melting Point:**

120 - 170C (248 - 338F)

**Vapor Density (Air=1):**

1.03

**Vapor Pressure (mm Hg):**

1.4 @ 25C (77F)

**Evaporation Rate (BuAc=1):**

No information found.

## 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage. Releases formaldehyde gas slowly as it sublimates at room temperatures.

**Hazardous Decomposition Products:**

May form carbon dioxide, carbon monoxide, and formaldehyde when heated to decomposition.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Caustics, strong alkalis, isocyanates, anhydrides, oxides and inorganic acids.

**Conditions to Avoid:**

Heat, flame, ignition sources, dusting and incompatibles.

## 11. Toxicological Information

**Toxicological Data:**

Paraformaldehyde: Oral rat LD50: 800 mg/kg; Inhal.rat LC50: > 170 mg/m3/1H; irritation skin rabbit: 500 mg, severe; investigated as a mutagen. Formaldehyde: Oral rat LD50: 100 mg/kg; skin rabbit LD50: 270 mg/kg; inhalation rat LC50: 203 mg/m3; investigated as a tumorigen, mutagen, reproductive effector.

**Carcinogenicity:**

Formaldehyde cancer status: NTP Anticipated Carcinogen; IARC Category 2A; EPA/IRIS Group B1; OSHA Cancer-Suspect Agent.

-----\Cancer Lists\-----			
Ingredient	--NTP Carcinogen--		IARC Category
	Known	Anticipated	
Paraformaldehyde (30525-89-4)	No	No	None

## 12. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Domestic (Land, D.O.T.)

-----  
**Proper Shipping Name:** PARAFORMALDEHYDE  
**Hazard Class:** 4.1  
**UN/NA:** UN2213  
**Packing Group:** III  
**Information reported for product/size:** 3KG

**International (Water, I.M.O.)**

-----  
**Proper Shipping Name:** PARAFORMALDEHYDE  
**Hazard Class:** 4.1  
**UN/NA:** UN2213  
**Packing Group:** III  
**Information reported for product/size:** 3KG

**International (Air, I.C.A.O.)**

-----  
**Proper Shipping Name:** PARAFORMALDEHYDE  
**Hazard Class:** 4.1  
**UN/NA:** UN2213  
**Packing Group:** III  
**Information reported for product/size:** 3KG

## 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----  

Ingredient	TSCA	EC	Japan	Australia
Paraformaldehyde (30525-89-4)	Yes	No	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----  

Ingredient	Korea	DSL	NDSL	Phil.
Paraformaldehyde (30525-89-4)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----  

Ingredient	-SARA 302- RQ	TPQ	-SARA 313- List	-SARA 313- Chemical Catg.
Paraformaldehyde (30525-89-4)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----  

Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Paraformaldehyde (30525-89-4)	1000	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No  
Reactivity: No (Pure / Solid)

### WARNING:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**Australian Hazchem Code:** 1[Z]

**Poison Schedule:** S5

### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NEPA Ratings:** Health: 3 Flammability: 1 Reactivity: 0

### Label Hazard Warning:

DANGER! MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. SENSITIZER. SUSPECT CANCER HAZARD. EMITS FORMALDEHYDE WHICH MAY CAUSE CANCER. Risk of cancer depends upon duration and level of exposure. **COMBUSTIBLE SOLID.**

### Label Precautions:

Do not breathe dust or vapor.  
Do not get in eyes, on skin, or on clothing.  
Keep container closed.  
Use only with adequate ventilation.  
Wash thoroughly after handling.  
Keep away from heat, sparks and flame.

### Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. In all cases call a physician.

### Product Use:

Laboratory Reagent.

### Revision Information:

MSDS Section(s) changed since last revision of document include: 3.

**Disclaimer:**

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\*\*\*\*\*

Prepared by: Environmental Health & Safety  
Phone Number: (314) 654-1600 (U.S.A.)

HAZ

Do 002 22

1000 P  
2000 P

MSDS Number: **10080** \* \* \* \* \* Effective Date: **05/19/08** \* \* \* \* \* Supersedes: **09/07/05**

<b>MSDS</b> <b>Material Safety Data Sheet</b>		24 Hour Emergency Telephone: <b>800-468-3151</b> CHEMTREC: <b>1-800-424-9393</b>
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865		National Response In Canada CANUTEC: <b>613-466-4866</b>
Mallinckrodt CHEMICALS		Outside U.S. and Canada Chemtrec: <b>703-327-3887</b>
J.T. Baker		NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.
All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.		

## IMIDAZOLE

### 1. Product Identification

**Synonyms:** Glyoxaline; Iminazole; 1,3-Diaza-2,4-cyclopentadiene  
**CAS No.:** 288-32-4  
**Molecular Weight:** 68.08  
**Chemical Formula:** C<sub>3</sub>H<sub>4</sub>N<sub>2</sub>  
**Product Codes:**  
 J.T. Baker: N811  
 Mallinckrodt: 4337

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Imidazole	288-32-4	90 - 100%	Yes

### 3. Hazards Identification

#### Emergency Overview

**DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.**

**SAF-T-DATA<sup>(tm)</sup>** Ratings (Provided here for your convenience)

Health Rating: 3 - Severe  
 Flammability Rating: 1 - Slight  
 Reactivity Rating: 0 - None  
 Contact Rating: 3 - Severe (Corrosive)  
 Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES  
 Storage Color Code: White (Corrosive)

#### Potential Health Effects

Information on the human health effects from exposure to this substance is limited.

#### Inhalation:

Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

#### Ingestion:

Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea.

#### Skin Contact:

Corrosive. Symptoms of redness, pain, and severe burn can occur.

#### Eye Contact:

Corrosive. Can cause blurred vision, redness, pain, severe tissue burns and eye damage. Can cause blindness.

#### Chronic Exposure:

Chronic exposure may cause respiratory system effects. Chronic exposure may cause skin effects.

#### Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

## 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. DO NOT APPLY GREASES OR OINTMENTS!

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

**Fire:**

Flash point: 146C (295F) CC

**Explosion:**

Above the flash point, explosive vapor-air mixtures may be formed.

**Fire Extinguishing Media:**

Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

## 7. Handling and Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

None established.

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:**

White flakes.

**Odor:**

No information found.

**Solubility:**

Soluble in water.

**Specific Gravity:**

0.60

**pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

0

**Boiling Point:**

256C (493F)

**Melting Point:**  
89 - 91C (192 - 196F)  
**Vapor Density (Air=1):**  
No information found.  
**Vapor Pressure (mm Hg):**  
No information found.  
**Evaporation Rate (BuAc=1):**  
No information found.

## 10. Stability and Reactivity

**Stability:**  
Stable under ordinary conditions of use and storage.  
**Hazardous Decomposition Products:**  
Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.  
**Hazardous Polymerization:**  
This substance does not polymerize.  
**Incompatibilities:**  
Strong oxidizers.  
**Conditions to Avoid:**  
Heat, flames, ignition sources and incompatibles.

## 11. Toxicological Information

Imidazole: Oral rat LD50: 220 mg/Kg. Investigated as a mutagen, reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Imidazole (288-32-4)	No	No	None

## 12. Ecological Information

**Environmental Fate:**  
No information found.  
**Environmental Toxicity:**  
No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

### Domestic (Land, D.O.T.)

**Proper Shipping Name:** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (IMIDAZOLE)  
**Hazard Class:** 8  
**UN/NA:** UN3263  
**Packing Group:** III  
**Information reported for product/size:** 5KG

### International (Water, I.M.O.)

**Proper Shipping Name:** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (IMIDAZOLE)  
**Hazard Class:** 8  
**UN/NA:** UN3263  
**Packing Group:** III  
**Information reported for product/size:** 5KG

## 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Imidazole (288-32-4)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
--Canada--				
Ingredient	Korea	DSL	NDSL	Phil.
Imidazole (288-32-4)	Yes	Yes	No	Yes
-----\Federal, State & International Regulations - Part 1\-----				
-SARA 302-				
Ingredient	RQ	TPQ	List	SARA 313 Chemical Catg.
Imidazole (288-32-4)	No	No	No	No
-----\Federal, State & International Regulations - Part 2\-----				
-RCRA-				
Ingredient	CERCLA	261.33	8(d)	
Imidazole (288-32-4)	No	No	No	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No  
 Reactivity: No (Pure / Solid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: 3 Flammability: 1 Reactivity: 0

**Label Hazard Warning:**

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.

**Label Precautions:**

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Do not breathe dust.

Use only with adequate ventilation.

Keep container closed.

**Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.

**Disclaimer:**

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 \*\*\*\*\*

**Prepared by:** Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A.)

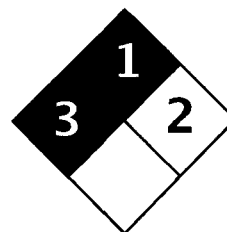
HAZ

DOOR

U407



**Science Lab.com**  
Chemicals & Laboratory Equipment



Health	3
Fire	1
Reactivity	1
Personal Protection	J

## Material Safety Data Sheet 4-Nitrophenyl Chloroformate MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** 4-Nitrophenyl Chloroformate

**Catalog Codes:** SLN2521

**CAS#:** 7693-46-1

**RTECS:** Not available.

**TSCA:** TSCA 8(b) inventory: 4-Nitrophenyl Chloroformate

**CI#:** Not available.

**Synonym:**

**Chemical Name:** 4-Nitrophenyl Chloroformate

**Chemical Formula:** C7-H4-Cl-N-O4

#### Contact Information:

**Sciencelab.com, Inc.**  
14025 Smith Rd.  
Houston, Texas 77396

US Sales: **1-800-901-7247**  
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

**CHEMTREC (24HR Emergency Telephone), call:**  
1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
{4-}Nitrophenyl Chloroformate	7693-46-1	100

**Toxicological Data on Ingredients:** 4-Nitrophenyl Chloroformate LD50: Not available. LC50: Not available.

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of eye contact (corrosive). Slightly hazardous in case of skin contact (corrosive). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

#### Potential Chronic Health Effects:

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can

produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Serious Inhalation:**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), halogenated compounds.

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of open flames and sparks, of heat.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

### Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:**

Corrosive solid.

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

### Section 7: Handling and Storage

**Precautions:**

Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as acids, alkalis, moisture.

**Storage:**

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F). Preferably refrigerate.

### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:**

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

### Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Crystalline solid.)

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 201.57 g/mole

**Color:** White.

**pH (1% soln/water):** Not available.

**Boiling Point:** 160.5°C (320.9°F)  
**Melting Point:** 78°C (172.4°F)  
**Critical Temperature:** Not available.  
**Specific Gravity:** Not available.  
**Vapor Pressure:** Not applicable.  
**Vapor Density:** Not available.  
**Volatility:** Not available.  
**Odor Threshold:** Not available.  
**Water/Oil Dist. Coeff.:** Not available.  
**Ionicity (in Water):** Not available.  
**Dispersion Properties:** Not available.  
**Solubility:** Not available.

#### Section 10: Stability and Reactivity Data

**Stability:** The product is stable.  
**Instability Temperature:** Not available.  
**Conditions of Instability:** Excess heat, incompatibles, moisture  
**Incompatibility with various substances:** Reactive with acids, alkalis, moisture.  
**Corrosivity:** Not available.  
**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Will not occur.

#### Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact. Inhalation. Ingestion.  
**Toxicity to Animals:**  
LD50: Not available.  
LC50: Not available.  
**Chronic Effects on Humans:** Not available.  
**Other Toxic Effects on Humans:**  
Very hazardous in case of skin contact (irritant), of ingestion, .  
Hazardous in case of eye contact (corrosive), of inhalation (lung corrosive).  
Slightly hazardous in case of skin contact (corrosive).  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:****Acute Potential Health Effects:**

**Skin:** Causes skin irritation and may cause skin burns depending on the severity of exposure.

**Eyes:** Causes eye irritation and eye burns. Strong corrosive effect on eyes. Eye contact may result in permanent damage and complete vision loss.

**Inhalation:** Causes respiratory tract and mucous membrane irritation. Inhalation may result in respiratory effects such as inflammation, edema, chemical pneumonitis, coughing, wheezing, haryngitis, shortness of breath.

**Ingestion:** Causes digestive tract and mucous membrane irritation. Ingestion may cause nausea, vomiting, headache. It may also cause damage to the mouth, throat, stomach, and esophagus with possible perforation.

**Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not available.

**Section 13: Disposal Considerations****Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Section 14: Transport Information**

**DOT Classification:** Class 8: Corrosive material

**Identification:** : Corrosive Solid, n.o.s. (4-Nitrophenyl Chloroformate) UNNA: 1759 PG: III

**Special Provisions for Transport:** Not available.

**Section 15: Other Regulatory Information**

**Federal and State Regulations:** TSCA 8(b) inventory: 4-Nitrophenyl Chloroformate

**Other Regulations:**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications:**

**WHMIS (Canada):** CLASS E: Corrosive solid.

**DSCL (EEC):**

R34- Causes burns.

S20- When using do not eat or drink.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39- Wear suitable protective clothing,

gloves and eye/face protection.  
S45- In case of accident or if you feel unwell,  
seek medical advice immediately (show the  
label where possible).  
S60- This material and its container must be  
disposed of as hazardous waste.

**HMIS (U.S.A.):**

**Health Hazard:** 3

**Fire Hazard:** 1

**Reactivity:** 1

**Personal Protection:** j

**National Fire Protection Association (U.S.A.):**

**Health:** 3

**Flammability:** 1

**Reactivity:** 2

**Specific hazard:**

**Protective Equipment:**

Gloves.

Synthetic apron.

Vapor and dust respirator. Be sure to  
use an approved/certified respirator or  
equivalent. Wear appropriate respirator  
when ventilation is inadequate.

Splash goggles.

**Section 16: Other Information**

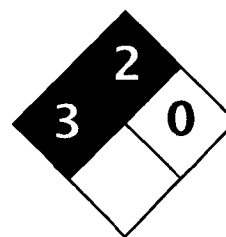
**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/10/2005 11:02 AM

**Last Updated:** 11/06/2008 12:00 PM

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.*



Health	3
Fire	2
Reactivity	0
Personal Protection	

## Material Safety Data Sheet Tributylamine MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** Tributylamine

**Catalog Codes:** SLT3097

**CAS#:** 102-82-9

**RTECS:** YA0350000

**TSCA:** TSCA 8(b) inventory: Tributylamine

**CI#:** Not available.

**Synonym:**

**Chemical Formula:** C<sub>12</sub>H<sub>27</sub>N

#### Contact Information:

**Sciencelab.com, Inc.**  
14025 Smith Rd.  
Houston, Texas 77396

US Sales: **1-800-901-7247**  
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

**CHEMTREC (24HR Emergency Telephone), call:**  
1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
Tributylamine	102-82-9	100

**Toxicological Data on Ingredients:** Tributylamine: ORAL (LD50): Acute: 114 mg/kg [Rat]. 114 mg/kg [Mouse]. 615 mg/kg [Rabbit]. DERMAL (LD50): Acute: 194 mg/kg [Rabbit]. VAPOR (LC50): Acute: 75 ppm 4 hour(s) [Rat].

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (permeator). Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.

Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:**

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:**

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

**Ingestion:**

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** Combustible.

**Auto-Ignition Temperature:** 210°C (410°F)

**Flash Points:** CLOSED CUP: 63°C (145.4°F). (Setaflash) OPEN CUP: 85.5°C (185.9°F).

**Flammable Limits:** LOWER: 1.4% UPPER: 6%

**Products of Combustion:** These products are carbon oxides (CO, CO2).

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

### Small Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: Neutralize the residue with a dilute solution of acetic acid.

### Large Spill:

Combustible material. Corrosive liquid.

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid.

## Section 7: Handling and Storage

### Precautions:

Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

### Storage:

Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

### Personal Protection:

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Liquid.

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 185.36 g/mole

**Color:** Colorless to light yellow.

**pH (1% soln/water):** 12 [Basic.]

**Boiling Point:** 216.5°C (421.7°F)

**Melting Point:** -70°C (-94°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 0.7782 (Water = 1)

**Vapor Pressure:** 0.3 mm of Hg (@ 20°C)

**Vapor Density:** 6.38 (Air = 1)

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** The product is equally soluble in oil and water;  $\log(\text{oil/water}) = 0$

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Very slightly soluble in cold water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.

## Section 11: Toxicological Information

**Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.

### Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 114 mg/kg [Mouse].

Acute dermal toxicity (LD50): 194 mg/kg [Rabbit].

Acute toxicity of the vapor (LC50): 75 ppm 4 hour(s) [Rat].

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Very hazardous in case of skin contact (irritant), of ingestion, of inhalation.  
Hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

## Section 14: Transport Information

**DOT Classification:** CLASS 8: Corrosive liquid.

**Identification:** : Corrosive liquids n.o.s. : UN2542 PG: III

**Special Provisions for Transport:** Not available.

## Section 15: Other Regulatory Information

**Federal and State Regulations:**

Pennsylvania RTK: Tributylamine

Florida: Tributylamine

Massachusetts RTK: Tributylamine

New Jersey: Tributylamine

TSCA 8(b) inventory: Tributylamine

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):**

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

CLASS E: Corrosive liquid.

**DSCL (EEC):**

R23- Toxic by inhalation.

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

**HMIS (U.S.A.):**

**Health Hazard:** 3

**Fire Hazard:** 2

**Reactivity:** 0

**Personal Protection:**

**National Fire Protection Association (U.S.A.):**

**Health:** 3

**Flammability:** 2

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves.

Full suit.

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Face shield.

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/11/2005 12:48 PM

**Last Updated:** 11/06/2008 12:00 PM

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# MATERIAL SAFETY DATA SHEET

Last updated: 12/11/2003

## SECTION I PRODUCT IDENTIFICATION AND COMPANY INFO

**PRODUCT NAME:** SODIUM HYDROSULFITE

**SUPPLIER CONTACT:** AZ Chemicals, INC,  
2201 Water Ridge Parkway  
Suite 570, Charlotte, N.C. 28217  
(877) 835 1423  
www.azchemicals.com

**SYNONYMS:** Sodium dithionite; sodium sulfoxylate; dithionous acid, disodium salt

**CAS NUMBER:** 7775-14-6  
**UN No:** 1384  
**RTECS No:** JP2100000  
**IMDG Page:** 4262

**HAZARD RATING:**

HEALTH	3	0 LEAST
FIRE	1	1 SLIGHT
REACTIVITY	2	2 MODERATE
OTHER		3 HIGH
		4 EXTREME

**HAZARD RATING METHOD:** NFPA

**FOR CHEMICAL EMERGENCIES, SPILL, FIRE EXPOSURE OR ACCIDENT**  
**CONTACT INFOTRAC, 24 HOURS 1-800-535-5053**

## SECTION II PRECAUTIONARY STATEMENT

### WARNING :

Flammable! May spontaneously ignite in moist air or upon contact with water. Causes severe irritation to the skin, eyes and mucous membranes. May cause an allergic skin reaction.

Keep away from heat, sparks and open flames. Store in tightly closed containers. Wear impervious gloves, goggles and protective clothing when handling this product. Avoid breathing dust. Wash thoroughly after handling.

### SECTION III      **INGREDIENTS**

Description	%	CAS No	Exposure Limit
Dithionous acid, disodium salt	>88	7775-14-6	Not established

### SECTION IV      **FIRE AND EXPLOSION DATA**

FLASH POINT:                      Not Applicable  
AUTOIGNITION TEMP:              250°C  
EXTINGUISHING MEDIA:  
    Carbon dioxide, dry sand or large quantities of water

#### **SPECIAL PROCEDURES:**

Wear full protective clothing and self-contained breathing apparatus with full face-piece. Avoid use of water unless sufficient amounts are available for flooding and flushing all involved product. Decomposition/combustion products may include toxic fumes such as sulfur dioxide.

This product, upon contact with water, forms sulfurous acid.

#### **EXPLOSION HAZARDS:**

Decomposes violently at 374°F(190°C). React violently with oxidants resulting in combustions or explosion. If exposed to a little water or to moisture, may be warming, firing even exploding.

UPPER EXPLOSION LIMIT:              Unavailable  
LOWER EXPLOSION LIMIT:              Unavailable  
SENSITIVITY/SPARKS:                  Unknown  
SENSITIVITY/STATIC ELECTRICITY:      Unknown

### SECTION V      **PHYSICAL PROPERTIES**

APPEARANCE:                              White, crystalline powder  
ODOR THRESHOLD:                          Slight irritant  
SPECIFIC GRAVITY:                          Unavailable  
VAPOR PRESSURE (mm Hg):                  Nil  
MELTING POINT:                              >300°C (Decomposes)  
INITIAL BOILING POINT:                      Decomposes  
EVAPORATION RATE:                          Nil  
    (Ethyl Ether = 1)  
SOLUBILITY IN WATER:                      Soluble  
BULK DENSITY:                              ~0.9  
VOLATILE %:                                  Nil  
pH:    5-6  
pH METHOD :                                      pH test paper



## **SECTION VI HEALTH INFORMATION**

### **SKIN:**

Causes severe irritation, even burns after prolonged contact.  
May cause allergic skin reaction.

### **EYES:**

Causes severe irritation. May result in permanent eye damage.

### **SWALLOWING:**

Causes severe irritation to mucous membranes.

### **BREATHING:**

Inhalation of dust can cause irritation of the upper respiratory tract.

### **CARCINOGENICITY:**

This product is not listed in IARC Monographs, the NTP Sixth Annual Report or the current ACGIH TLVs as a carcinogen or potential carcinogen. It is not regulated by OSHA as a carcinogen.

## **SECTION VII FIRST AID PROCEDURES**

### **BREATHING:**

If affected, move to fresh air. If breathing has stopped, give artificial respiration and call a physician.

### **SKIN CONTACT:**

Thoroughly wash exposed area with lots of soap and water. If irritation persists or if open sores develop, contact a physician.  
Remove contaminated clothing and launder before re-use.

### **EYE CONTACT:**

Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get medical attention. Do not use chemical antidote.

### **SWALLOWING:**

If conscious, give two large glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

## **SECTION VIII REACTIVITY INFORMATION**

### **INCOMPATIBILITIES:**

Have strong reduction and can be oxidize if exposed to air.  
Avoid contact with acids, water and moist air. Avoid excessive heat.

### **DECOMPOSITION:**

Decomposition compounds include toxic fumes such as sulfur dioxide.  
Contact with water results in the formation of sulfurous acid.

### **HAZARDOUS POLYMERIZATION:**

Cannot occur.

### **STABILITY:**

Stable under normal conditions. Violent decomposition may result if product is heated to 374°F(190°).



## **SECTION IX UNINTENTIONAL RELEASE INFORMATION**

### **SPILL AND LEAK PROCEDURE:**

Eliminate all ignition sources (heat, sparks, open flames, etc.).  
Persons not wearing protective equipment should be excluded from the area of the spill until clean-up has been completed. Keep away from water or moisture. Shovel spilled material into containers.  
Thoroughly sweep up residual material, and then wash the spill site.

### **WASTE DISPOSAL:**

This product, if disposed of, is an ignitable waste (D001) under current RCRA regulations.

## **SECTION X PERSONAL PROTECTION**

### **RESPIRATORY PROTECTION:**

A NIOSH/MSHA approved respirator is recommended during operations which generate dust.

### **SKIN PROTECTION:**

Wear protective gloves such as Neoprene.

### **EYE PROTECTION:**

Chemical goggles in compliance with OSHA regulations are advised, however, OSHA may also permit other types of safety glasses.

### **OTHER PROTECTION:**

Impervious clothing and boots are recommended.  
Provide sufficient ventilation to maintain exposure below level of over-exposure.

## **SECTION XI STORAGE, HANDLING & TRANSPORTATION**

### **STORAGE:**

Keep in closed or covered containers when not in use. Store in cool dry place with adequate ventilation. Do not store near oxidants, acids or combustible materials.

### **HANDLING:**

Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Whenever possible, use mechanical means to move large and or heavy objects to help prevent back injuries.

### **TRANSPORTATION:**

Sodium dithionite, 4.2 (spontaneously combustible), UN 1384, PG II



## **SECTION XII    ADDITIONAL INFORMATION**

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372.

Components present in this product at a level which could require reporting under the statute are: None

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The product information contained herein is believed to be accurate as of the data of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury property damage.

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**\*\*\*\*\*END OF REPORT\*\*\*\*\***

Haz waste

U108

MSDS Number: **D7552** \* \* \* \* \* Effective Date: **05/19/08** \* \* \* \* \* Supersedes: **08/16/05**

<b>MSDS</b> Material Safety Data Sheet		24 Hour Emergency Telephone: 908-861-2151 CHEMTREC: 1-800-424-6300
From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865		National Response in Canada CANUTEC: 613-861-4864
J.T. Baker CHEMICALS		Outside U.S. and Canada Chemtrec: 703-527-3887
NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.		
All non-emergency questions should be directed to Customer Service (1-800-632-2537) for assistance.		

## DIOXANE

### 1. Product Identification

**Synonyms:** Diethylene dioxide; 1,4-dioxane; dioxethylene ether; p-dioxane; Diethylene Ether  
**CAS No.:** 123-91-1  
**Molecular Weight:** 88.12  
**Chemical Formula:** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>  
**Product Codes:**  
 J.T. Baker: 9196, 9228, 9231  
 Mallinckrodt: 4937

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Dioxane	123-91-1	99 - 100%	Yes

### 3. Hazards Identification

#### Emergency Overview

**DANGER! TENDS TO FORM EXPLOSIVE PEROXIDES, ESPECIALLY WHEN ANHYDROUS. FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. POSSIBLE CANCER HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA. Risk of cancer depends on duration and level of exposure.**

#### SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Cancer)  
 Flammability Rating: 3 - Severe (Flammable)  
 Reactivity Rating: 2 - Moderate  
 Contact Rating: 3 - Severe (Life)  
 Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER  
 Storage Color Code: Red (Flammable)

#### Potential Health Effects

##### Inhalation:

Highly toxic by inhalation. Easily absorbed through lungs. Symptoms include irritation of the respiratory tract, headache, nausea, vomiting, dizziness, and narcosis. Can cause liver damage and brain and lung edema. Death may occur from kidney failure. Dioxane poisoning has poor warning properties.

##### Ingestion:

Sore throat, abdominal pain. Other symptoms parallel those from inhalation.

##### Skin Contact:

Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin with possible systemic effects.

##### Eye Contact:

Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

##### Chronic Exposure:

Prolonged exposure may cause central nervous system depression, loss of appetite, nausea, abdominal tenderness, and liver or kidney damage. Prolonged skin contact may cause dermatitis. Suspected human carcinogen based on animal data. Repeated inhalation exposures to low concentrations have been fatal.

##### Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

## 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

**Fire:**

Flash point: 12C (54F) CC

Autoignition temperature: 180C (356F)

Flammable limits in air % by volume:

lcl: 2.0; ucl: 22.0

Flammable.

**Explosion:**

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Substance can explode when redistilled. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. Sensitive to static discharge.

**Fire Extinguishing Media:**

Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. This highly flammable liquid must be kept from sparks, open flame, hot surfaces, and all sources of heat and ignition.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker SOLUSORB® solvent adsorbent is recommended for spills of this product.

## 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from direct sunlight and any area where the fire hazard may be acute. Store in tightly closed containers (preferably under nitrogen atmosphere). Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment. Protect from freezing. Before using bulk quantities of this material, test for presence of explosive peroxides. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):

100 ppm (TWA) skin

-ACGIH Threshold Limit Value (TLV):

20 ppm (TWA) skin, A3 - Animal Carcinogen

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134). This substance has questionable warning properties.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Nitrile is recommended as a suitable material for personal protective equipment.

**Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

**Appearance:**

Clear, colorless solution.

**Odor:**

Faint ether-like odor.

**Solubility:**

Soluble

**Specific Gravity:**

1.03 @ 20C/4C

**pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

100

**Boiling Point:**

101C (214F)

**Melting Point:**

11.8C (54F)

**Vapor Density (Air=1):**

3.03

**Vapor Pressure (mm Hg):**

27 @ 20C (68F)

**Evaporation Rate (BuAc=1):**

2.7

## 10. Stability and Reactivity

**Stability:**

Stable in closed containers under nitrogen at room temperature. Anhydrous dioxane slowly reacts with atmospheric oxygen to form explosive peroxides. If these peroxides are concentrated by evaporation or distillation, there exists a serious risk of explosion.

**Hazardous Decomposition Products:**

Reacts with air to form explosive peroxides under certain conditions; exposure to sunlight accelerates this formation. Decomposes to carbon monoxide.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Silver perchlorate, oxidizing agents, sulfur trioxide. Dioxane may react with hydrogen in the presence of Raney nickel above 210C (410F).

**Conditions to Avoid:**

Heat, flame, ignition sources, incompatibles, air, sunlight.

## 11. Toxicological Information

Oral rat LD50: 4200 mg/kg; inhalation rat LC50: 46 gm/m3/2H; skin rabbit LD50: 7600 mg/kg; investigated as a mutagen, tumorigen, reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Dioxane (123-91-1)	No	Yes	2B

## 12. Ecological Information

**Environmental Fate:**

When released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material is not expected to biodegrade. When released into water, this material may evaporate to a moderate extent. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day.

**Environmental Toxicity:**

This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Domestic (Land, D.O.T.)

-----  
**Proper Shipping Name:** RQ, DIOXANE  
**Hazard Class:** 3  
**UN/NA:** UN1165  
**Packing Group:** II  
**Information reported for product/size:** 473LB

**International (Water, I.M.O.)**

-----  
**Proper Shipping Name:** DIOXANE  
**Hazard Class:** 3  
**UN/NA:** UN1165  
**Packing Group:** II  
**Information reported for product/size:** 473LB

## 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Dioxane (123-91-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	DSL	--Canada-- NDSL	Phil.
Dioxane (123-91-1)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-SARA 313-	
	RQ	TPQ	List	Chemical Catg.
Dioxane (123-91-1)	No	No	Yes	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Dioxane (123-91-1)	100	U108	No

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
 SARA 311/312: Acute: Yes      Chronic: Yes      Fire: Yes      Pressure: No  
 Reactivity: Yes      (Pure / Liquid)

**WARNING:**

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

**Australian Hazchem Code:** 2SE

**Poison Schedule:** S6

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: 2 Flammability: 3 Reactivity: 1

**Label Hazard Warning:**

DANGER! TENDS TO FORM EXPLOSIVE PEROXIDES, ESPECIALLY WHEN ANHYDROUS. FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER AND KIDNEYS. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. POSSIBLE CANCER HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA. Risk of cancer depends on duration and level of exposure.

**Label Precautions:**

Wash thoroughly after handling.  
 Do not breathe vapor.  
 Keep container tightly closed.  
 Use only with adequate ventilation.  
 Do not get in eyes, on skin, or on clothing.  
 Keep away from heat, sparks and flame.  
 Do not evaporate to dryness unless absence of peroxides has been shown.

**Label First Aid:**

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.

**Disclaimer:**

\*\*\*\*\*

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy.

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING

WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

\*\*\*\*\*

Prepared by: Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A.)



# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Venlafaxine-amine acetate concentrate

**Product No.:** 493

**Synonyms:** WY-45821 concentrate

Venlafaxine-amine acetate (50% concentrate in 30% acetic acid solution)

**Manufacturer Name:**

ZaCh System Corporation  
914 So. 16th Street  
La Porte, Texas 77571  
USA

**Emergency Telephone:**

+1 866-393-3306 (24hr.)  
+1 281-8842-0245 (Plant)

**Non-emergency Telephone:**

+1 281-842-0201

**Intended Use:** Synthesis intermediate

**Contact Person:**

E-mail: Ron.Smith@ZambonGroup.com

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Identification of the preparation** Venlafaxine Amine Acetate Concentrate

**Chemical characterization** Venlafaxine Amine Acetate, acetic acid and water

Hazardous components	CAS-No.	EC-No.	Weight %	Classification
Venlafaxine Amine Acetate	n.a	n.a	40-50%	Xn R22, Xi R41, R10, Sensitizing R43
Acetic Acid	67-1904	200-580-7	20-40%	C R35, R10

For the full text of the R phrases mentioned in this section, see Section 16.

## 3 HAZARDOUS IDENTIFICATION

**Classification** C R34, Xn R22, Sensitizing R43, R10

**Most important hazardous** Causes burns. Harmful if swallowed.  
May cause sensitization by skin contact. Flammable.

**4 FIRST AID MEASURES****General**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Inhalation**

Move to fresh air. Call a physician or Poison Control Center immediately.

**Eye Contact**

Remove contact lenses. Rinse immediately with plenty of water for at least 15 minutes.

**Skin Contact**

Call a physician or Poison Control Center immediately. Wash off immediately with plenty of water. Use a mild soap if available. Remove and wash contaminated clothing before re-use.

**Ingestion**

Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

**5 FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray, dry powder, carbon dioxide (CO<sub>2</sub>), foam.

**Extinguishing media which must not be used for safety reason**

None.

**Specific hazards:**

Vapors are heavier than air and may spread along floors.

Flash back possible over considerable distance.

**Special protective equipment for firefighters**

In the event of fire, wear self contained breathing apparatus. Wear personal protective equipment.

Avoid contact with skin and eyes.

**Hazardous decomposition products**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>).

Hydrogen, by reaction with metals.

**6 ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Evacuate personnel to safe areas. Use personal protective equipment.

Avoid contact with skins and eyes. Remove all sources of ignition.

**Environmental Precautions**

Prevent further leakage or spillage if safe to do so.  
Do not allow material to contaminate ground water system.  
Prevent product from entering drains.

**Methods for cleaning up:**

Neutralize with lime milk or soda and flush with plenty of water. Soak up with inert absorbent material.  
Pick up and transfer to properly labeled containers. Dispose of in accordance with local regulations.

<b>7</b>	<b>HANDLING AND STORAGE</b>
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**Handling****Technical measures/precautions**

Use only in area provided with appropriate exhaust ventilation. Remove all sources of ignition.  
Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.

**Safe handling advice**

Avoid contact with skin and eyes. Use personal protective equipment.

**Storage****Technical measures/storage conditions**

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep container tightly closed. Keep away from heat and sources of ignition.

<b>8</b>	<b>EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
----------	--

**Occupational exposure controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas.

**Exposure Limit Values**

Acetic Acid UK OEL TWA 10ppm, STEL 15

**Personal protective equipment****Respiratory protection**

Wear a positive-pressure supplied-air respirator with full face piece. Ensure adequate ventilation.

**Hand Protection**

Protective gloves complying with EN 374. Suitable material: Viton, butyl rubber.  
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

**Eye protection**

Face-shield, tightly fitting safety goggles (EN 166).

**Skin and body protection**

Boots, apron, protective suit.

**Hygiene Measures**

General industrial hygiene practice. When using, do not eat, drink, or smoke.

Remove and wash contaminated clothing before re-use.

**Environmental Exposure Controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
----------	---

**Color:** Pale yellow

**Odor:** Pungent

**Odor Threshold:** No data available.

**Physical State:** Viscous Liquid

**pH:** 5

**Melting Point:** 156°C (313°F) - 157°C (315°F)

**Freezing Point:** No data available.

**Boiling Point:** 116°C (240.8°F) - 118°C (244.4°F)

**Flash Point:** 39°C (102°F) (acetic acid)

**Evaporation Rate:** No data available.

**Flammability Limit - Upper (%):** No data available.

**Flammability Limit - Lower (%):** No data available.

**Vapor Pressure:** 11.4 mm Hg @ 20°C (acetic acid)

**Vapor Density (Air=1):** >2 (acetic acid)

**Specific Gravity:** No data available.

**Solubility in Water:** Soluble

**Solubility (Other):** No data available.

**Decomposition Temperature:** No data available.

**Viscosity:** No data available.

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
-----------	---------------------------------

**Stability:** Material is stable under normal conditions.

**Conditions to Avoid:** Heat, sparks, flames, elevated temperatures. Moisture.

**Incompatible Materials:** Acids, peroxides, strong bases.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides (NOx)

**Hazardous polymerization:** Hazardous polymerization does not occur.

**11 TOXICOLOGICAL INFORMATION****Specified Substance(s)****Acute Toxicity:**

LD50/oral/rat = 200-2000mg/kg (Venlafaxine Amine Acetate); 3310mg/kg (acetic acid)

LC50/inhalation/1h/mouse = 5620ppm (acetic acid)

LD50/dermal/rabbit > 200mg/kg (Venlafaxine Amine Acetate); 1060uL/mg (acetic acid)

**Local Effects:**

The product causes burns of eyes, skin and mucous membranes. Risk of serious damage to eyes. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Inhaled corrosive substances can lead to a toxic edema of the lungs. May cause sensitization by skin contact.

**Long Term Toxicity:**

No data available. Avoid repeated exposure.

**Specific Effects:**

Carcinogenic effects: Not listed in: NTP, IARC, OSHA, ACGIH

**Listed Carcinogens:** None.

**12 ECOLOGICAL INFORMATION**

**Mobility:** The product is soluble in water.

**Persistence and Degradability:** No data available.

**Ecotoxicity Effects:** No data available.

**13 DISPOSAL CONSIDERATIONS****Waste from residues / unused products:**

Can be incinerated, when in compliance with local regulations.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery, or waste disposal.

**Further information:**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**14 TRANSPORT INFORMATION****DOT****UN No.:** UN2790**Proper Shipping Name:** Acetic acid solution**Class:** 8**Packing Group:** II**Label(s):** 8**IATA****UN No.:** UN2790**Proper Shipping Name:** Acetic acid solution**Class:** 8**Packing Group:** II**Label(s):** 8**IMO****UN No.:** UN2790**Proper Shipping Name:** Acetic acid solution**Class:** 8**Packing Group:** II**Label(s):** 8**ICAO****UN No.:** UN2790**Proper Shipping Name:** Acetic acid solution**Class:** 8**Packing Group:** II**Label(s):** 8**15 REGULATORY INFORMATION**

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

**Symbol**

C – Corrosive.

**R-phrases**

R10 – Flammable .

R22 – Harmful if swallowed.

R34 – Causes burns.

R43 – May cause sensitization by skin contact.

**S-phrases**

S23 – Do not breathe vapor.

S24/25 – Avoid contact with skin and eyes.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S28 – After contact with skin, wash immediately with plenty of soap and water.

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

S45 – In case of accident or if you feel unwell, seek medical attention immediately (show the label where possible).

<b>Contains</b>	Acetic acid	EC-No.: 200-580-7
	Venlafaxine Amine Acetate	EC-No.: No data available.

<b>16</b>	<b>OTHER INFORMATION</b>
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**Text of R phrases mentioned in Section 2**

R10 – Flammable

R22 – Harmful if swallowed

R35 – Causes severe burns

R41 – Risk of serious damage to eyes

R43 – May cause sensitization by skin contact.

**Issue Date:** 01-Apr-2008**Supersedes Date:**

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

MSDS Number: **D2856** \* \* \* \* Effective Date: **04/10/01** \* \* \* \* Supersedes: **04/21/98**

From: Mallinckrodt Baker, Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151  
CHEMTREC: 1-800-424-9300

National Response in Canada  
CANUTEC: 613-996-6666

Outside U.S. And Canada  
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

## DICYCLOHEXYLAMINE

### 1. Product Identification

**Synonyms:** Cyclohexanamine, N-cyclohexyl-; dicyclohexylamine 99%, dodecahydrodiphenylamine

**CAS No.:** 101-83-7

**Molecular Weight:** 181.32

**Chemical Formula:** C<sub>12</sub>H<sub>23</sub>N

**Product Codes:** H391

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Dicyclohexylamine	101-83-7	100%	Yes

### 3. Hazards Identification

#### Emergency Overview

**DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED. MAY BE ABSORBED THROUGH SKIN.**

**J.T. Baker SAF-T-DATA<sup>(tm)</sup> Ratings** (Provided here for your convenience)

Health Rating: 2 - Moderate

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe (Corrosive)

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: White (Corrosive)

#### Potential Health Effects

Information on the human health effects from exposure to this substance is limited.

**Inhalation:**

Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat, and labored breathing. May cause lung edema, a medical emergency.

**Ingestion:**

Toxic. May cause burns in esophagus and stomach, coughing, nausea, and vomiting.

**Skin Contact:**

Corrosive. May cause severe irritation, redness, pain, and skin burns. Irritant and possible sensitizer.

**Eye Contact:**

Causes irritation, redness, and pain.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

No information found.

## 4. First Aid Measures

**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:**

DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

**Fire:**

Flash point: > 99C (> 210F) OC

Fire Hazard when exposed to heat or flame.

**Explosion:**

Above the flash point, explosive vapor-air mixtures may be formed.

**Fire Extinguishing Media:**

Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

## 7. Handling and Storage

Protect against physical damage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage room or cabinet. Separate from oxidizing materials. Storage and use areas should be No Smoking areas. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Store above 20C (68F) to prevent freezing.

## 8. Exposure Controls/Personal Protection

### Airborne Exposure Limits:

None established.

### Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

### Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

### Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

### Appearance:

Clear, colorless liquid.

### Odor:

Fishy/amine odor.

### Solubility:

Sparingly soluble in water.

### Specific Gravity:

0.910

### pH:

Strong base

### % Volatiles by volume @ 21C (70F):

100

### Boiling Point:

256C (493F)

### Melting Point:

20C (68F)

### Vapor Density (Air=1):

6.27

### Vapor Pressure (mm Hg):

No information found.

### Evaporation Rate (BuAc=1):

No information found.

## 10. Stability and Reactivity

### Stability:

Stable under ordinary conditions of use and storage. Strong base.

**Hazardous Decomposition Products:**

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Acids, acid chlorides, acid anhydrides, oxidizing agents, chloroformates.

**Conditions to Avoid:**

Heat, cold and incompatibles.

## 11. Toxicological Information

**Toxicological Data:**

Oral rat LD50: 373 mg/kg.

Investigated as a carcinogen and mutagen.

Irritation eye rabbit: 750 ug/24H severe.

Skin rabbit: 2mg/24H severe.

**Carcinogenicity:**

There is limited evidence that this material causes cancer in laboratory animals. There is inadequate evidence that this material causes cancer in humans.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Dicyclohexylamine (101-83-7)	No	No	3

## 12. Ecological Information

**Environmental Fate:**

No information found.

**Environmental Toxicity:**

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

**Domestic (Land, D.O.T.)**

-----  
**Proper Shipping Name:** DICYCLOHEXYLAMINE

**Hazard Class:** 8

**UN/NA:** UN2565

**Packing Group:** III

**Information reported for product/size:** 3KG

**International (Water, I.M.O.)**

-----  
**Proper Shipping Name:** DICYCLOHEXYLAMINE

**Hazard Class:** 8

UN/NA: UN2565

Packing Group: III

Information reported for product/size: 3KG

## 15. Regulatory Information

```

-----\Chemical Inventory Status - Part 1\-----
Ingredient                                     TSCA  EC   Japan  Australia
-----
Dicyclohexylamine (101-83-7)                 Yes  Yes   Yes    Yes

```

```

-----\Chemical Inventory Status - Part 2\-----
Ingredient                                     Korea DSL  NDSL  Phil.
-----
Dicyclohexylamine (101-83-7)                 Yes  Yes   No    Yes

```

```

-----\Federal, State & International Regulations - Part 1\-----
Ingredient                                     -SARA 302-   -SARA 313-----
                                     RQ    TPQ      List  Chemical Catg.
-----
Dicyclohexylamine (101-83-7)                 No    No       No    No

```

```

-----\Federal, State & International Regulations - Part 2\-----
Ingredient                                     CERCLA   -RCRA-   -TSCA-
                                     -----   -----   -----
                                     No       261.33   8 (d)
Dicyclohexylamine (101-83-7)                 No       No       No

```

Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
 SARA 311/312: Acute: Yes      Chronic: No      Fire: No      Pressure: No  
 Reactivity: No      (Pure / Liquid)

Australian Hazchem Code: 3X

Poison Schedule: None allocated.

### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 0

### Label Hazard Warning:

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED. MAY BE ABSORBED THROUGH SKIN.

### Label Precautions:

Do not breathe vapor.

Do not get in eyes, on skin, or on clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

### Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of skin contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In all cases call a physician immediately..

### Product Use:

Laboratory Reagent.

**Revision Information:**

No changes.

**Disclaimer:**

\*\*\*\*\*

**Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.**

\*\*\*\*\*

**Prepared by:** Environmental Health & Safety

Phone Number: (314) 654-1600 (U.S.A.)

# American Azide Corporation

P.O. Box 629, 10622 West 6400 North, Cedar City, UT 84720

Telephone: (435) 865-5000 Fax: (435) 865-5005

24 HOUR EMERGENCY PHONE: (435) 865-5044

## SODIUM AZIDE

Date issued: 19 September 2003

### MATERIAL SAFETY DATA SHEET

#### SECTION I—PRODUCT IDENTIFICATION

<b>Trade name (common name or synonym):</b> Sodium azide, Azide	<b>Chemical name:</b> Sodium azide	<b>Chemical Formula:</b> NaN <sub>3</sub>
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#### SECTION II—HEALTH HAZARD INFORMATION AND FIRST AID PROCEDURES

<b>Acute effects:</b> Exposure can lower blood pressure and cause headaches, shortness of breath, faintness and increased heart rate. Sodium Azide is a poison and may be fatal if significant doses are inhaled, ingested or skin absorbed.	<b>Toxicity Data:</b> Rat-oral LD <sub>50</sub> = 27 mg/kg Rabbit-skin LD <sub>50</sub> = 20 mg/kg
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**Chronic effects:** No long-term effects have been reported.

<b>Carcinogen:</b>	<b>IARC:</b> NO	<b>NTP:</b> NO	<b>OSHA:</b> NO
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**Medical conditions aggravated by exposure:**

Low blood pressure, respiratory conditions. Interaction may occur with blood pressure-reducing medicines.

#### EMERGENCY FIRST AID PROCEDURES:

<u>Routes of exposure</u>	<u>Signs and symptoms of exposure:</u>	<u>Emergency and first aid procedures:</u>
SKIN:	May cause local irritation or stinging effect.	Vacuum or brush dust off first if possible. Avoid breathing dust. Wash exposed area immediately with plenty of tepid water. Neutralize with a buffered solution. Remove contaminated clothing and footwear.
INHALATION:	Airborne concentrations of sodium azide can cause headaches, shortness of breath, increased respiration and heartbeat, nausea and dizziness.	If experiencing increased respiration or shortness of breath, move to fresh air. Administer oxygen if exposed person is unconscious. Never give anything by mouth to an unconscious person.
INGESTION:	Nausea, headache, dizziness, shortness of breath, increased respiration and pulse	Give water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention.
EYES:	Eyes will appear to be bloodshot because of dilated blood vessels. This may be the first symptom of sodium azide exposure.	Flush eyes with fresh water and move exposed person to a non-contaminated area.

#### SECTION III—HAZARDOUS COMPONENTS AND OCCUPATIONAL EXPOSURE LIMITS

<b>Hazardous components:</b>	<b>CAS:</b>	<b>OSHA PEL: PROPOSED</b>	<b>ACGIH TLV (Ceiling)</b>
SODIUM AZIDE	26628-22-8	0.3 mg/M <sup>3</sup> DUST 0.1 ppm VAPOR (SKIN)	0.29 mg/M <sup>3</sup> DUST 0.11 ppm VAPOR

#### SECTION IV—PHYSICAL/CHEMICAL CHARACTERISTICS

<b>Boiling point:</b> N/A	<b>Vapor pressure:</b> N/A	<b>Vapor Density:</b> N/A	<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.846
<b>Melting point:</b> Decomposes at 275°C	<b>Evaporation rate:</b> N/A	<b>pH:</b> 9.0	
<b>Solubility in water (% by weight):</b> 42 % at 20°C	<b>Appearance and odor:</b> White crystal, no odor to slight ammonia odor.		

#### SECTION V—FIRE AND EXPLOSION DATA

<b>Flash point (Method used):</b> NA	<b>Flammable limits:</b> NA	<b>LEL:</b> NA	<b>UEL:</b> NA
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**Extinguishing media (Sodium Fires):** Fight fires with dry sand, soda ash light, or class D fire extinguisher.

#### SPECIAL FIRE FIGHTING PROCEDURES:

Sodium azide will self-extinguish if not confined or fought with water. Burning sodium azide produces nitrogen, sodium oxide and metallic sodium, which is water reactive. Do not fight fires with water. Water will react with decomposed sodium azide. Wear SCBAs. Corrosive fumes are released from a sodium azide fire. Keep upwind when attempting to rescue or to fight a fire.

<b>SECTION VI—REACTIVITY DATA</b>			
<b>STABILITY</b>		<b>Conditions to avoid:</b>	
<b>Unstable:</b>	<b>Stable:</b> X	Avoid exposure to heavy metals and low-pH liquids or vapors. Avoid elevated temperatures over 275°C which can cause decomposition.	
<b>Incompatibility (Materials to avoid):</b> Acids, strong oxidizers, heavy metals, salts containing heavy metals and materials such as brass, copper, lead, or bronze, which contain heavy metals.			
<b>Hazardous decomposition or byproducts:</b> Sodium, Nitrogen, Sodium Oxide.		<b>Hazardous polymerization:</b> Hazardous polymerization will not occur.	
<b>SECTION VII—ENVIRONMENTAL PROCEDURES</b>			
<b>Steps to be taken if material is released or spilled:</b> Wearing an SCBA or airline respirator, collect loose material and containerize. Clean contaminated floor surface with pH-adjusted water (pH greater than 9.0).		<b>Waste disposal method:</b> Dispose of in accordance with local, state, and federal regulations.	
<b>Section 313 Supplier Notification:</b> This product contains SODIUM AZIDE (CAS # 26628-22-8) at concentrations greater than 99% by weight and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). This information should be included in all MSDSs that are copied and distributed for this material.			
<b>SECTION VIII—SPECIAL PROTECTION / EXPOSURE CONTROL MEASURES</b>			
<b>Ventilation requirements:</b> Ventilate as necessary to minimize exposure levels. Inspect and clean ventilation systems regularly.			
<b>Eye protection:</b> Wear safety glasses or full-face respirators.		<b>Protective gloves:</b> Plastic, rubber or latex gloves are recommended.	
<b>Respiratory protection:</b> Use SCBAs or airline respirators when exposed to sodium azide during handling or usage.		<b>Other clothing and equipment:</b> Protective clothing suitable to minimize skin contact with solid sodium azide or solutions containing sodium azide.	
<b>Personal hygiene and work practices:</b> Remove any sodium azide contamination before eating, drinking, smoking, applying cosmetics, etc. Shower and change clothes after exposure to sodium azide. Prior to showering remove dust from skin by vacuuming or brushing while minimizing airborne dust. Wash contaminated clothing in a controlled area to prevent exposure to personal clothing and to prevent sodium azide contamination in drains containing copper and lead or other heavy metals.			
<b>SECTION IX—PRECAUTIONS FOR SAFE HANDLING AND STORAGE</b>			
<b>Handling and storage precautions:</b> Avoid contact with skin and eyes. Do not breathe dust or vapors. Do not expose sodium azide to acids or heavy metals. Control static electricity and other ignition sources. Dust clouds may be ignition sensitive. Store in dry areas away from sources of extreme heat. Contact with water may form hydrazoic acid.			
<b>Special mixing and handling instructions:</b> Ground and bond process equipment. Do not combine sodium azide with low-pH liquids and vapors, since hydrazoic acid may form.			
<b>SECTION X—TRANSPORTATION DATA AND ADDITIONAL INFORMATION</b>			
DOT shipping name: Sodium azide		UN number: 1687	
DOT hazard class: Poison 6.1		CAS number: 26628-22-8	
DOT hazardous substance: RQ 1000#			
CAS = Chemical Abstract Service Number		TLV = ACGIH Threshold Limit Value, Current	
PEL = OSHA Permissible Exposure Limit		N/A = Not Applicable	
<p>IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling and storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws.</p>			

**ZaCh****Zach System Corp.**

914 South 16th Street

La Porte, TX. 77571

**Certificate of Analysis****Product: 055**

Z-Valine

Sample ID: 298603

Order No.:

Lot: 2-0608-0889-00

Cnts:

Customer:

Destination:

Print Date: 2009-02-09 12:52PM

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Any Individual Impurity	WT%	0.0	0.0	0.1	PASS
Appearance		WHITE TO OFF-WHITE SOLID			PASS
Benzyl Alcohol, wt%	WT%	0.02	0.00	0.25	PASS
Benzyl-L-Valine	WT%	0.0	0.0	0.2	PASS
Identify by FTIR	NONE	CONFORMS TO STANDARD			PASS
L-Valine	NONE	<0.10			PASS
Methoxycarbonyl-L-Val	NONE	<0.1%			PASS
SPECIFIC ROTATION	DEGREES	999999.0	-5.0	-4.0	FAIL
T.U.R.S. A	WT%	0.1	0.0	0.5	PASS
T.U.R.S. B	WT%	0.2	0.0	0.5	PASS
Toluene wt%	WT%	0.1	0.0	0.3	PASS
Total Rel. Substances	WT%	0.2	0.0	1.7	PASS
Water wt%	WT%	0.0	0.0	0.5	PASS
Z-D-VALINE	WT%	0.0	0.0	0.2	PASS
Z-L-Alanine	WT%	0.01	0.00	0.05	PASS
Z-L-VAL-VAL	WT%	0.0	0.0	0.5	PASS
Z-L-isoleucine	WT%	0.01	0.00	0.05	PASS
Z-L-leucine	WT%	0.03	0.00	0.05	PASS
Z-Valine, assay	WT%	100.1	98.0	102.0	PASS

Manufacturing / Packaging Date: August 21, 2006

Retest Date: August 20, 2007

QC Authorization: Wade R. KingDate: 11 Feb 09Title: QC Manager

EPAHO082001769

**ZaCh****Zach System Corp.**

914 South 16th Street

La Porte, TX. 77571

**Certificate of Analysis****Product: 055**

Z-Valine

Sample ID: 337795

Order No.:

Lot: 2-0710-7953-00

Cnts:

Customer:

Destination:

Print Date: 2009-02-09 12:53PM

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Any Individual Impurity	WT%	0.0	0.0	0.1	PASS
Appearance		WHITE TO OFF-WHITE SOLID			PASS
Benzyl Alcohol, wt%	WT%	0.02	0.00	0.25	PASS
Benzyl-L-Valine	WT%	0.0	0.0	0.2	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD			PASS
L-Valine	NONE	<0.10			PASS
Methoxycarbonyl-L-Val	NONE	<0.1%			PASS
SPECIFIC ROTATION	DEGREES	999999.0	-5.0	-4.0	FAIL
T.U.R.S. A	WT%	0.2	0.0	0.5	PASS
T.U.R.S. B	WT%	0.2	0.0	0.5	PASS
Toluene wt%	WT%	0.0	0.0	0.3	PASS
Total Rel. Substances	WT%	0.3	0.0	1.7	PASS
Water wt%	WT%	0.0	0.0	0.5	PASS
Z-D-VALINE	WT%	0.0	0.0	0.2	PASS
Z-L-Alanine	WT%	0.01	0.00	0.05	PASS
Z-L-VAL-VAL	WT%	0.0	0.0	0.5	PASS
Z-L-isoleucine	WT%	0.03	0.00	0.05	PASS
Z-L-leucine	WT%	0.01	0.00	0.05	PASS
Z-Valine, assay	WT%	99.0	98.0	102.0	PASS

Manufacturing / Packaging Date: October 20, 2007

Retest Date: October 19, 2008

QC Authorization: Wade [Signature]Date: 11 Feb 09Title: QC Manager

EPAHO082001770

**ZaCh****Zach System Corp.**914 South 16th Street  
La Porte, TX. 77571**Certificate of Analysis****Product: 055**

Z-Valine

Sample ID: 343580

Order No.:

Lot: 2-0801-9141-00

Cnts:

Customer:

Destination:

Print Date: 2009-02-09 12:55PM

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
Any Individual Impurity	WT%	0.0	0.0	0.1	PASS
Appearance		WHITE TO OFF-WHITE SOLID			PASS
Benzyl Alcohol, wt%	WT%	0.00	0.00	0.25	PASS
Benzyl-L-Valine	WT%	0.0	0.0	0.2	PASS
Identity by FTIR	NONE	CONFORMS TO STANDARD			PASS
L-Valine	NONE	<0.10			PASS
Methoxycarbonyl-L-Val	NONE	<0.1%			PASS
SPECIFIC ROTATION	DEGREES	999999.0	-5.0	-4.0	FAIL
T.U.R.S. A	WT%	0.2	0.0	0.5	PASS
T.U.R.S. B	WT%	0.2	0.0	0.5	PASS
Toluene wt%	WT%	0.0	0.0	0.3	PASS
Total Rel. Substances	WT%	0.2	0.0	1.7	PASS
Water wt%	WT%	0.0	0.0	0.5	PASS
Z-D-VALINE	WT%	0.0	0.0	0.2	PASS
Z-L-Alanine	WT%	0.01	0.00	0.05	PASS
Z-L-VAL-VAL	WT%	0.0	0.0	0.5	PASS
Z-L-isoleucine	WT%	0.03	0.00	0.05	PASS
Z-L-leucine	WT%	0.00	0.00	0.05	PASS
Z-Valine, assay	WT%	100.0	98.0	102.0	PASS

Manufacturing / Packaging Date: January 11, 2008

Retest Date: January 9, 2009

QC Authorization: Wade KingDate: 11 Feb 09Title: QC Manager

EPAHO082001771

ZaCh

Zach System Corp.

914 South 16th Street  
La Porte, TX. 77571

# Certificate of Analysis

**Product: 055**

*Z-Valine*

Sample ID: 346420

Lot: 2-0805-9734-00

Cntrs:

Print Date: 2009-02-09 12:56PM

Order No.:

Customer:

Destination:

Cust. Order No.:

Test Description	UOM	Result	Min.	Max.	Test Status
TOC	PPM	999999.0	0.00	50.0	FAIL

N/A

Manufacturing / Packaging Date: May 27, 2008

Retest Date: May 26, 2009

QC Authorization: 

Date: 11 Feb 09

Title: QC Manager

EPAHO082001772

## Joy Baker

---

**From:** Hollis Howard [hollishoward88@hotmail.com]  
**Sent:** Thursday, January 22, 2009 10:59 AM  
**To:** Joy Baker  
**Subject:** RE: surplus material

Heres the first items my client wants certs on.

Hollis

Need CofA's:

Z-Valine: 749.1 kg  
4-Nitrophenyl Chloroformate: 1076 kg  
Imidazole: 2400 kg  
Tributylamine: 6891 kg  
Z-L-Valine-NCA: 312.6 kg

---

**From:** [jbaker@cesenvironmental.com](mailto:jbaker@cesenvironmental.com)  
**To:** [hollishoward88@hotmail.com](mailto:hollishoward88@hotmail.com)  
**Date:** Wed, 21 Jan 2009 19:42:40 -0800  
**Subject:** RE: surplus material

I will check on what certs are available. I would think so, but cannot say for sure right now. Thanks, Joy

**From:** Hollis Howard [mailto:hollishoward88@hotmail.com]  
**Sent:** Wednesday, January 21, 2009 9:42 PM  
**To:** Joy Baker  
**Subject:** RE: surplus material

Thank you very much I'll get to work imeadiately on it. You're a joy to work with.  
I'll need certs on anything that you offer me, do you have these?  
I can see immeadiately you have some winners on this list.  
Your Amino acids will be the first ones my guys will probably want.

Hollis

---

**From:** [jbaker@cesenvironmental.com](mailto:jbaker@cesenvironmental.com)  
**To:** [hollishoward88@hotmail.com](mailto:hollishoward88@hotmail.com)  
**Date:** Wed, 21 Jan 2009 18:57:46 -0800  
**Subject:** surplus material

This is what I have:

CDI-Carbonyl Diimidazole: 72.1 kg  
Isopropanol: 531 kg  
Heptane: 359.3 liter  
Z-Valine: 749.1 kg  
4-Nitrophenyl Chloroformate: 1076 kg  
Triethylamine: 599 kg  
Imidazole: 2400 kg

Tributylamine: 6891 kg  
SCA-NCA: 2148.6 kg  
N-methyl Morpholine: 250 kg  
Dry Sodium Hydrosulfite (88%): 756 kg  
Z-L-Valine-NCA: 312.6 kg  
Acetic Anhydride: 1973 kg  
Potassium Carbonate: 153.2 kg  
CIP-100 Cleaning Solution (Steris): 214.5 kg  
1,4-Dioxane: 575.7 kg  
4-(2-aminoethyl)-morpholine: 180 kg  
Di-Butyl Ether: 391.2 kg  
Di-isopropyl Ether: 149.7 kg  
Ammonium Chloride (technical grade): 6589.2 kg  
L-tert-Leucine: 31 kg  
Dicyclohexylamine: 75 kg

Joy

**\*\*Confidentiality Notice\*\***

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**From:** Hollis Howard [mailto:hollishoward88@hotmail.com]  
**Sent:** Wednesday, January 21, 2009 4:49 PM  
**To:** Joy Baker  
**Subject:** RE:

Please send me anything you have.

Hollis

---

From: [jbaker@cesenvironmental.com](mailto:jbaker@cesenvironmental.com)  
To: [hollishoward88@hotmail.com](mailto:hollishoward88@hotmail.com)  
Date: Wed, 21 Jan 2009 11:01:14 -0800  
Subject: RE:

Received. I will do my best to get this to you today.

Thanks,  
Joy

*Joy Baker*  
CES Environmental Services, Inc  
4904 Griggs Rd  
Houston, TX 77021  
mobile: 281-701-8511  
fax: (713) 748-8664

[jbaker@cesenvironmental.com](mailto:jbaker@cesenvironmental.com)

**From:** Hollis Howard [mailto:hollishoward88@hotmail.com]

**Sent:** Wednesday, January 21, 2009 12:03 PM

**To:** Joy Baker

**Subject:**

Hi Joy as per our conversation here is my co info.

I have a long list of products I move long list of companies I have moved them for if you need. Please send me your surplus pharmaceutical list & I will make you cash offers on anything hot same day service.

Sincerely  
Hollis Howard  
University Products  
830 N.1st Av Su 208  
Phoenix Az.85003  
559 736-5793

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Hotmail® goes where you go. On a PC, on the Web, on your phone. [See how.](#)

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Windows Live™: E-mail. Chat. Share. Get more ways to connect. [See how it works.](#)

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Windows Live™ Hotmail®...more than just e-mail. [See how it works.](#)

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Windows Live™: E-mail. Chat. Share. Get more ways to connect. [See how it works.](#)

- Collections / Past due -

Rada 9/15  
9/18 adjusted

25,718.57

paid 133 days fr.  
adjustment

lost \$815.44 in  
commission

had personal guarantee  
and bonded for it

had more recent invoice / application

11:04 AM

03/18/09

## CES Environmental Services, Inc. (2005)

## A/R Aging Summary

As of March 18, 2009

	Current	1 - 30	31 - 60	61 - 90	91 - 120	> 120	TOTAL
Accron, LP	0.00	1,172.82	0.00	0.00	0.00	0.00	1,172.82
Afton Chemical Corp - Port Arthur	0.00	1,972.66	599.99	0.00	0.00	0.00	2,572.65
Arkema (Atofina)	0.00	9,668.63	0.00	0.00	0.00	0.00	9,668.63
Bullzeye Tank Service	0.00	164.38	0.00	0.00	0.00	0.00	164.38
Dana Container (invoicing)	0.00	38,719.04	24,386.93	0.00	0.00	0.00	63,105.97
Delta Chemical Services	0.00	0.00	9,316.99	0.00	0.00	0.00	9,316.99
Delta Chemical - Deer Park	0.00	9,524.43	10,764.84	0.00	0.00	0.00	20,289.27
Delta Chemical Service -Sheldon	0.00	918.50	0.00	0.00	0.00	0.00	918.50
EMA, Inc.	0.00	3,151.20	0.00	0.00	0.00	0.00	3,151.20
Enviro Solution	0.00	3,623.28	2,225.68	0.00	0.00	1,300.00	7,148.96
G & R Waste Oil Services-Gary/Rodney	0.00	0.00	0.00	0.00	0.00	704.43	704.43
Global Environmental	0.00	811.29	3,515.77	0.00	0.00	0.00	4,327.06
Green Earth Fuels	0.00	7,569.75	5,109.29	0.00	0.00	0.00	12,679.04
Gulf Coast Oil Recovery	0.00	0.00	0.00	0.00	0.00	500.00	500.00
Honing Inc.	0.00	1,363.50	0.00	0.00	0.00	0.00	1,363.50
Hydril (HHP) (HEIP)	0.00	5,526.66	3,087.44	1,928.24	0.00	0.00	10,542.34
Hydril (McCarty)	0.00	15,324.98	2,660.60	2,266.41	0.00	0.00	20,251.99
Hydril HTC	0.00	646.38	2,309.31	0.00	0.00	0.00	2,955.69
Intergulf Corp. (Chem Sep)	0.00	22,406.53	0.00	0.00	0.00	0.00	22,406.53
Mission Petroleum - Angelton	0.00	303.00	909.00	0.00	359.16	0.00	1,571.16
Mission Petroleum Carriers, Inc.	0.00	174.98	0.00	0.00	0.00	0.00	174.98
MTI Services, LLC	0.00	424.20	0.00	0.00	0.00	0.00	424.20
Noltex	0.00	28,838.02	0.00	1,136.26	0.00	0.00	29,974.28
Phoenix Pollution Control	0.00	2,684.39	0.00	1,309.22	0.00	0.00	3,993.61
Preston Environmental (Commerical Met...	0.00	505.00	2,687.72	0.00	0.00	0.00	3,192.72
Rampak Group, Inc.	0.00	6,695.09	997.48	0.00	0.00	632.66	8,325.23
Rineco Company	0.00	0.00	3,151.03	0.00	0.00	1,884.84	5,035.87
Select Environmental	0.00	0.00	0.00	623.47	0.00	567.00	1,190.47
Shell Oil (Galena Park)	0.00	1,708.81	306.19	0.00	0.00	0.00	2,015.00
Solvay Chemicals, Inc.	0.00	0.00	0.00	0.00	514.50	0.00	514.50
Texas Blending & Warehousing	0.00	0.00	0.00	0.00	0.00	878.00	878.00
Tideport Distributing, Inc.	0.00	6,021.32	8,508.48	0.00	0.00	0.00	14,529.80
Turnerco Oil Service	0.00	0.00	0.00	0.00	0.00	1,538.25	1,538.25
Vertex Recovery	0.00	0.00	0.00	0.00	0.00	64,607.51	64,607.51
Volcanic Heaters	0.00	0.00	0.00	0.00	0.00	270.57	270.57
Working Solutions	0.00	0.00	86.37	0.00	0.00	0.00	86.37
Zach System Corp.	0.00	5,891.93	0.00	0.00	0.00	0.00	5,891.93
<b>TOTAL</b>	<b>0.00</b>	<b>175,810.77</b>	<b>80,623.11</b>	<b>7,263.60</b>	<b>873.66</b>	<b>72,878.26</b>	<b>337,449.40</b>

V:sa/mc

Left message for Debbie Ingram

fired to W 713-944-6000

Brund  
Brund

short pay 4243.25

will call w/ce

(Bob Kesall)  
(Kara will call)short-pay  
see of Baker  
TankDana  
emailed Robyn

writing us low

EPAHQ0082001778

Tank Clean out



4904 Griggs Road  
Houston, TX 77021  
Phone: (713) 676-1460  
Fax: (713) 676-1676

# Invoice

Date	Invoice #
11/30/2008	52317

Bill To: Mission Petroleum Carriers  
Attn: Accounts Payable  
8450 Mosley Rd.  
Houston, TX 77075

		P.O. No.	Terms	Project	
			Net 30		
Quantity	Description	Manifest #	Rate	Amount	
	10/28/08				
4	Transportation services by CES @ \$70.00 per hour 4 hour minimum Delivery of box # 605		70.00	280.00	
	27% Fuel Surcharge		75.60	75.60	
	1% Compliance Fee		3.56	3.56	
<div>Contact: <i>John Payne</i> <i>main # 713-943-8250</i> <i>- Debbie Ingram in A/P</i> <i>ext 253</i> <i>Fax: 713-946-2641</i></div> <div>CES Job # 74794</div>					
We appreciate your business!		Subtotal		\$359.16	
Late Payment Policy: Any unpaid balances beginning on the 30th day after the account is due will accrue a per annum interest rate of 7.5%, unless otherwise stated in a formalized contract.		Sales Tax (8.25%)		\$0.00	
		Total		\$359.16	

EPAHO082001779

10:06 AM  
11/11/08  
Accrual Basis

CES Environmental Services, Inc. (2005)  
Customer Open Balance  
All Transactions

Type	Date	Num	Memo	Due Date	Open Balance	Amount
Rada Technologies						
Invoice	9/10/2008	49539	wastewater...	9/20/2008	29,142.37	29,142.37
Invoice	9/15/2008	49567	(green eart...	9/25/2008	13,530.27	13,530.27
Invoice	9/15/2008	49609	wastewater...	9/25/2008	12,188.30	12,188.30
Invoice	9/23/2008	49852	wastewater...	10/3/2008	3,310.31	3,310.31
Invoice	9/26/2008	50021	wastewater	10/6/2008	8,603.28	8,603.28
Invoice	9/30/2008	50198	wastewater...	10/10/2008	2,500.41	2,500.41
Invoice	10/27/2008	51037	wastewater...	11/26/2008	29,658.90	29,658.90
Total Rada Technologies					98,933.84	98,933.84
TOTAL					98,933.84	98,933.84

*paid 12/10/08*  
*paid 11/29*  
*paid 64 camp*

11/25/08 - talked to Robert bias  
paid a couple of the invoices in mail today.  
Has already invoiced G.E., but will pay us  
as soon as they are closed out

All total collected  
\$140,975 from  
Rada last year!



**CES Environmental  
Services, Inc.**

4904 Griggs Road  
Houston, TX 77021  
Phone: (713) 676-1460  
Fax: (713) 676-1676

## Invoice

Date	Invoice #
9/30/2008	50073

Bill To: G & R Waste Oil Services  
Attn: Gary Tott  
19478 Desna Dr.  
Porter, TX 77365

		P.O. No.	Terms	Project	
			Net 30		
Quantity	Description	Manifest #	Rate	Amount	
6,500	09/25/08 Recycling of oily water @ \$0.10 per gallon	BOL 72671	0.10	650.00	
	7.3% Energy Surcharge		47.45	47.45	
	1% Compliance Fee		6.98	6.98	
	<div>gary will call Rodney get cc to pay w/</div>				
	CES job #72671				
We appreciate your business!		<b>Subtotal</b>		\$704.43	
Late Payment Policy: Any unpaid balances beginning on the 30th day after the account is due will accrue a per annum interest rate of 7.5%, unless otherwise stated in a formalized contract.		<b>Sales Tax (8.25%)</b>		\$0.00	
		<b>Total</b>		\$704.43	

EPAHO082001781



4904 Griggs Road  
Houston, TX 77021  
Phone: (713) 676-1460  
Fax: (713) 676-1676

Bill To: Rampak Group, Inc.  
Attn: Accounts Payable  
1356 Kress St.  
Houston, TX 77020-7421

713-336-9098

## Invoice

Date	Invoice #
10/31/2008	51343

Attn: Accounts Payable

Please let us know Payment Status for this invoice. If you need additional information feel free to give us a call  
Thank you.

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Manifest #	Rate	Amount
10,440	10/16/08 Recycling of EVOH strands @ \$0.06 per lb	BOL 73899	0.06	626.40
	1% Compliance Fee		6.26	6.26
<div>Sent "New" original w/ Backup mgs 3/17/09</div> <div>3/17- Melba talked w/ Cheryl and emailed</div>				

We appreciate your business!

Late Payment Policy: Any unpaid balances beginning on the 30th day after the account is due will accrue a per annum interest rate of 7.5%, unless otherwise stated in a formalized contract.

**Subtotal** \$632.66

**Sales Tax (8.25%)** \$0.00

**Total** \$632.66


EPAHO082001782

1:10 PM  
10/15/08  
Accrual Basis

CES Environmental Services, Inc. (2005)  
**Customer Open Balance**  
All Transactions

Type	Date	Num	Memo	Due Date	Open Balance	Amount
<b>Rada Technologies</b>						
Invoice	8/18/2008	48603	wastewater...	8/28/2008	28,078.57	28,078.57
Invoice	8/20/2008	48742	wastewater...	8/30/2008	6,402.89	6,402.89
Invoice	8/28/2008	49043	wastewater...	9/7/2008	2,582.68	2,582.68
Invoice	8/31/2008	49190	wastewater...	9/10/2008	4,977.02	4,977.02
Invoice	9/10/2008	49539	wastewater...	9/20/2008	29,142.37	29,142.37
Invoice	9/15/2008	49567	(green eart...	9/25/2008	13,530.27	13,530.27
Invoice	9/15/2008	49609	wastewater...	9/25/2008	12,188.30	12,188.30
Invoice	9/23/2008	49852	wastewater...	10/3/2008	3,310.31	3,310.31
Invoice	9/26/2008	50021	wastewater	10/6/2008	8,603.28	8,603.28
Invoice	9/30/2008	50198	wastewater...	10/10/2008	2,500.41	2,500.41
Total Rada Technologies					111,316.10	111,316.10
<b>TOTAL</b>					<b>111,316.10</b>	<b>111,316.10</b>

all  
pd

  
- Profiles on hold/waiting -

CL - Win  
30 min, 1 hr load,  
\$40/drum

load fee

\$300/load

1 hr loading

\$70/hr dem.

+ fsc 24%

60 drums



**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021  
Phone: (713) 676-1460 Fax: (713) 676-1676  
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948  
U.S. EPA ID No: TXD008950461 ISWR No: 30900

40

**SECTION 1: Generator Information**

Company: Schooner Petroleum - Corpus Christi  
Address: 8131 Still Well  
City, State, Zip: Corpus Christi Tx. 78409  
Contact: Tommy Moore Title: Maint. Mgr.  
Phone No: 361-241-8237 Fax No: \_\_\_\_\_  
24/hr Phone: \_\_\_\_\_  
U.S. EPA I.D. No: CESQ  
State I.D. CESQ SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information - ☐ Same as Above**

Company: Select Environmental  
Address: 223 McInty Dr.  
City, State, Zip: Hou. Tx. 77029  
Contact: Hewitt White Title: Sales  
Phone No: 281-960-3967 Fax No: \_\_\_\_\_

**SECTION 3: General Description of the Waste**

Name of Waste: Grease, Oil, Mixture, Debris  
Detailed Description of Process Generating Waste: Refuse Existing Profile / Houston Location

Physical State: ☐ Liquid ☒ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☒ Combination

Color: Black Odor: Hydrocarbon

Specific Gravity (water=1): N/A Density: N/A lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)  
Container Size: 55 gal.

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly  
Number of Units (containers): 10 Other: \_\_\_\_\_

Texas State Waste Code No: \_\_\_\_\_

Proper U.S. DOT Shipping Name: Recycle  
Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point <u>N/A</u>	pH <u>N/A</u>	Reactive Sulfides <u>N/A</u> mg/l	Reactive Cyanides <u>N/A</u> mg/l	Solids <u>SD</u> %
Oil & Grease <u>N/A</u> mg/l	TOC <u>N/A</u> mg/l	Zinc <u>N/A</u> mg/l	Copper <u>N/A</u> mg/l	Nickel <u>N/A</u> mg/l

**SECTION 4: Physical and Chemical Data**

<b>COMPONENTS TABLE</b>	<b>Concentration</b>	<b>Units</b>
The waste consists of the following materials	Ranges are acceptable	or %
Oil		20
Grease		50
Debris		30

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

Existing Approved Profile

**SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: /

TCLP Volatiles: /

TCLP Semi-Volatiles: /

Reactivity: /

Corrosivity: /

Ignitability: /

**SECTION 9: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Jeff O'Brien

Date: 1-24-08

Printed Name/Title: Jeff O'Brien

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_

Additional Information: \_\_\_\_\_

Date: \_\_\_\_\_ Approved: \_\_\_\_\_ Rejected: \_\_\_\_\_

Approval Number: \_\_\_\_\_

**SECTION 10: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

***PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.***

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**1. Base Pricing (including freight):**

\$40/drum  
\$300/load trans + fsc (1 hr loading)

**2. Contamination Limits (maximum limit before surcharges apply):**

N/A

**3. Surcharge Pricing:**

N/A

**4. Special Testing Requirements:**

**5. Treatment and Handling Protocol:**

Recyclable oily waste

**6. Treated Wastewater Discharge Subcategory:**

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C

7. Tests for Product Recovered/Recycled (if applicable):

Pumpable Oil Content or Add to Recycled  
Oil Pads / Sorbent

8. Management for Product Recovered/Recycled (if applicable):

Recyclable Oily Waste



**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021  
Phone: (713) 676-1460 Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948  
U.S. EPA ID No: TXD008950461 ISWR No: 30900

**SECTION 1: Generator Information**

Company: Schoover Petroleum - Arkansas  
Address: 4 West Park  
City, State, Zip: Greenbrier, Arkansas 72058  
Contact: Don Jackamore Title: Plant Mgr.  
Phone No: 501-679-6219 Fax No: \_\_\_\_\_  
24/hr Phone: \_\_\_\_\_  
U.S. EPA I.D. No: CESA  
State I.D. CESA SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information - ☐ Same as Above**

Company: Select Environmental  
Address: 223 Mcarty Dr.  
City, State, Zip: Houston TX 77029  
Contact: Kevin White Title: CEO  
Phone No: 281-962-3967 Fax No: \_\_\_\_\_

**SECTION 3: General Description of the Waste**

Name of Waste: Grease, Oil, Debris Mixture  
Detailed Description of Process Generating Waste: Reference Existing Profile / History

Physical State: ☐ Liquid ☒ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☒ Combination

Color: Black Odor: Microscopic

Specific Gravity (water=1): \_\_\_\_\_ Density: \_\_\_\_\_ lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)  
Container Size: 55

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly  
Number of Units (containers): 10 Other: \_\_\_\_\_

Texas State Waste Code No: \_\_\_\_\_

Proper U.S. DOT Shipping Name: \_\_\_\_\_

Class: \_\_\_\_\_ UN/NA: \_\_\_\_\_ PG: \_\_\_\_\_ RQ: \_\_\_\_\_

Flash Point	pH	Reactive Sulfides mg/l	Reactive Cyanides mg/l	Solids %
Oil & Grease mg/l	TOC mg/l	Zinc mg/l	Copper mg/l	Nickel mg/l

**SECTION 4: Physical and Chemical Data**

<b>COMPONENTS TABLE</b>	<b>Concentration</b>	<b>Units</b>
The waste consists of the following materials	Ranges are acceptable	or %
Gravel	50	
oil	20	
Debris	30	

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

\_\_\_\_\_

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

\_\_\_\_\_

**SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

\_\_\_\_\_

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓

TCLP Volatiles: ✓

TCLP Semi-Volatiles: ✓

Reactivity: ✓

Corrosivity: ✓

Ignitability: ✓

**SECTION 9: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Jeff Olson

Date: 1-24-08

Printed Name/Title: Jeff Olson

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

Compliance Officer: \_\_\_\_\_

Additional Information: \_\_\_\_\_

Date: \_\_\_\_\_ Approved \_\_\_\_\_ Rejected \_\_\_\_\_

Approval Number: \_\_\_\_\_

**SECTION 10: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

***PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.***

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L  
Chromium: 8.9 mg/L  
Copper: 4.9 mg/L  
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

~~Non-regulated solids.~~  
~~Polymerized MDT and other non regulated~~  
~~solids.~~

~~05083891~~ 05104091

Hydrol H52  
Waiting on Non  
update for waste code



**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021  
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http://www.cesenvironmental.com  
TCEQ Industrial Solid Waste Permit No: 30948  
U.S. EPA ID No: TXD008950461 ISWR No: 30900

*KB*

**SECTION 1: Generator Information**

Company: Hydril Company LP (HTC)  
Address: 3300 Sam Houston Pkwy E  
City, State, Zip: Houston, TX 77032  
Contact: HAS Vinbali Title: OPERATIONS Manager  
Phone No: 281-985-8678 Fax No: 281-985-8871  
24/hr Phone: 281-985-8678  
U.S. EPA I.D. No: TX098160927  
State I.D. 31401 SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information - ☒ Same as Above**

Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Contact: \_\_\_\_\_ Title: \_\_\_\_\_  
Phone No: \_\_\_\_\_ Fax No: \_\_\_\_\_

**SECTION 3: General Description of the Waste**

Name of Waste: MOI - PART D Polymerized  
Detailed Description of Process Generating Waste: Isolate reacted with water

Physical State: ☒ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

Color: Colorless to yellow Odor: Mild

Specific Gravity (water=1): 1.2 Density: 10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size: 55 gal \_\_\_\_\_

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ one time  
Yearly

Number of Units (containers): 1 Other: \_\_\_\_\_

Texas State Waste Code No: \_\_\_\_\_

Proper U.S. DOT Shipping Name: \_\_\_\_\_

Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point 745	pH NA	Reactive Sulfides NA mg/l	Reactive Cyanides NA mg/l	Solids NA %
Oil & Grease NA mg/l	TOC NA mg/l	Zinc NA mg/l	Copper NA mg/l	Nickel 31.5 mg/l

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Polyurethane prepolymer of MDI + polyether polyol	45-55	g/g
Diphenylmethane diisocyanate (4,4'-MDI)	45-55	g/g

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ☒   
TCLP Volatiles: ☒   
TCLP Semi-Volatiles: ☒   
Reactivity: ☒   
Corrosivity: ☒   
Ignitability: ☒

#### SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: 4/16/08

Printed Name/Title: \_\_\_\_\_

HSB, facility manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: _____	
Date: _____	Approved Rejected
Approval Number: _____	

**SECTION 10: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

***PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.***

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



**PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

1. **Base Pricing (including freight):**

\$65/drum + trans + fsz

2. **Contamination Limits (maximum limit before surcharges apply):**

No free liquids.

3. **Surcharge Pricing:**

Standard

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

Shred. Class 2. NH

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A      ☐ Subcategory B      ☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable):**

--



**Texas Commission on Environmental Quality (TCEQ)  
One-Time Shipment Request for Texas Waste Code  
For Shipment of Hazardous and Class 1 Waste**

Pursuant to the generator notification requirements of 30 Texas Administrative Code (TAC) Section 335.6, the generator of a solid waste is required to submit to TCEQ detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from TCEQ.

<b>Generator Contact Person:</b> HAAS Binbali	
<b>Generator Company Name:</b> lty drill company LP (HTC)	
<b>Generator Mailing Address:</b> 3300 SAM Houston Parkway Houston, TX 77032	
<b>Generator Phone No.:</b> (281) 985-8678	<b>Generator Fax No.:</b> (281) 985-8871
<b>Texas Solid Waste Registration (SWR) No.</b> <small>(Only If Registered)</small>	<b>U.S. EPA Identification No.</b> TXD98160927
<b>Generating Site Location:</b> (check if same as above) <input checked="" type="checkbox"/> <small>Must be street address or physical description including zip code)</small>	
<b>Designated Treatment, Storage, and/or Disposal Facility name and address:</b> CES Environmental 4904 Griggs Rd Houston, TX 77021	

\*Only fill out System Type Code if you selected Source Code G25.

Description of Waste (Do Not Use DOT description or Trade name)	Form Code	Class Code	Origin Code	Source Code	System Type Code*	EPA Waste Code
1. MDI-part B polymerized	403	1	3	G11	H141	
	<b>Texas Waste Code:</b> (Assigned by TCEQ)					
2.						
	<b>Texas Waste Code:</b> (Assigned by TCEQ)					

**Generator/Representative**

I certify that the above information is complete and accurate to the best of my knowledge.

Signature [Signature]

Date 4/4/08

<b>Company Name:</b> <small>(If different than generator)</small> CES Environmental Services, Inc	
<b>Company Mailing Address:</b> 4904 Griggs Rd, Houston, TX 77021	
<b>Company Phone No.:</b> (713) 676-1468	<b>Company Fax No.:</b> (713) 676-1676

<b>Processed Date:</b>	<b>Processed By:</b>	<b>TCEQ Region:</b>
------------------------	----------------------	---------------------

If you have questions on how to fill out this form or about the One-Time Shipment program, please contact us at 512/239-6413. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.  
TCEQ-0757 (Rev. 05/10/2007)

EPAHQ082001803

APR-11-2008 11:10

CES Environmental Service

713-676-1676 31401-60



**Texas Commission on Environmental Quality (TCEQ)  
One-Time Shipment Request for Texas Waste Code  
For Shipment of Hazardous and Class 1 Waste**

Pursuant to the generator notification requirements of 30 Texas Administrative Code (TAC) Section 335.6, the generator of a solid waste is required to submit to TCEQ detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from TCEQ.

Generator Contact Person: HAAS binhai	
Generator Company Name: Hydrol company LP (HTC)	
Generator Mailing Address: 3300 SAM Houston Parkway Houston, TX 77032	
Generator Phone No.: (281) 985-8678	Generator Fax No.: (281) 985-8871
Texas Solid Waste Registration (SWR) No. 31401 (active) <small>(Only if Registered)</small>	U.S. EPA Identification No. TXD98160927
Generating Site Location: (check if same as above) <input checked="" type="checkbox"/> <small>Must be street address or physical description including zip code)</small>	
Designated Treatment, Storage, and/or Disposal Facility name and address: CES Environmental 4904 Griggs Rd Houston, TX 77021	

\*Only fill out System Type Code if you selected Source Code G25.

Description of Waste (Do Not Use DOT description or Trade name)	Form Code	Class Code	Origin Code	Source Code	System Type Code*	EPA Waste Code
1. MCI-Part B polymerized	403	1	3	G11	H141	
Texas Waste Code: (Assigned by TCEQ)						
2.						
Texas Waste Code: (Assigned by TCEQ)						

W403

**Generator/Representative**

I certify that the above information is complete and accurate to the best of my knowledge.

Signature: *[Signature]*

Date: 4/14/08

Company Name: <small>(If different than generator)</small>	CES Environmental Services, Inc.
Company Mailing Address: 4904 Griggs Rd, Houston, TX 77021	
Company Phone No.: (713) 676-1468	Company Fax No.: (713) 676-1676

Processed Date: 4.16.08	Processed By: <i>[Signature]</i>	TCEQ Region: 12
----------------------------	-------------------------------------	--------------------

If you have questions on how to fill out this form or about the One-Time Shipment program, please contact us at 512/239-6413. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.  
TCEQ-0757 (Rev. 05/10/2007)

31401

4.16

08-3214

Some levels  
too high for  
class!

**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021  
Phone: (713) 676-1460 Fax: (713) 676-1676  
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948  
U.S. EPA ID No: TXD008950461 ISWR No: 30900

**SECTION 1: Generator Information**

Company: Nelson Machine Products  
Address: 7131 Jack Rabbit Rd  
City, State, Zip: Houston, Texas 77095  
Contact: Monte Dick Title: Ops Mgr  
Phone No: 713-819-1071 Fax No:  
24/hr Phone: same  
U.S. EPA I.D. No: None  
State I.D. CESQG SIC Code: 3469

**SECTION 2: Billing Information - ☐ Same as Above**

Company: Preston Environmental Consultants, LLC.  
Address: PO Box 697  
City, State, Zip: Denham Springs, LA. 70727  
Contact: Robby Mersiovsky/Cathy Preston Title:  
Phone No: 713-882-7740/225-664-7767 Fax No: 832-344-5452/225-664-8655

**SECTION 3: General Description of the Waste**Name of Waste: Garnet and waterDetailed Description of Process Generating Waste: water and sand used to cut aluminum

Physical State: ☒ Liquid ☐ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color: tanOdor: none

Specific Gravity (water=1): \_\_\_\_\_ Density: \_\_\_\_\_ lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoIs the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843
2844	2851	2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511											

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)  
Container Size: \_\_\_\_\_ Vac box

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly ☐ One Time

Number of Units (containers): \_\_\_\_\_ Other: \_\_\_\_\_

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☒ No

If "Yes", Is it: ☐ D001 Ignitable ☐ D002 Corrosive ☐ D003 Reactive

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply) \_\_\_\_\_

Texas Waste Code Number: ~~EXCESQ6091~~ CESQ-6091

Proper US DOT Shipping Name: Non Regulated Liquid Non DOT / Non RCRA Regulated

Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point >200	pH 7	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 59%
Oil & Grease 0mg/l	TOC _____ mg/l	Zinc _____ mg/l	Copper _____ mg/l	Nickel _____ mg/l

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Sludge/Aluminum	59%	
Water	41%	

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.  
none

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  
analytical

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any):  
None known

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X  
TCLP Volatiles: X  
TCLP Semi-Volatiles: X  
Reactivity: \_\_\_\_\_  
Corrosivity: \_\_\_\_\_  
Ignitability: \_\_\_\_\_

**SECTION 9: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: 04-16-08

Printed Name/Title: \_\_\_\_\_

MONTE DICK

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_ Approved \_\_\_\_\_ Rejected \_\_\_\_\_

Approval Number: \_\_\_\_\_

**SECTION 10: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

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- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



**PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable):**

--

PAGE 01/06

COMPLETED: 02/01/08  
REVISED: 03/19/08  
RUN: 03/24/08

CONTROL #: 2374656-9  
LAB #: 2374656-9  
PROFILE REF #: 3393342

=====

GENERATOR INFORMATION:      CUSTOMER NUMBER: 0003-03-5568

ATTN: MONTE DICK

BRANCH: 607302 - MISSOURI CITY TX (HOUSTON)

200 3520  
281 ~~859~~ ~~8186~~  
281 856 7693

[illegible]

A. GENERATOR INFORMATION:  
GENERATOR NAME & FACILITY ADDRESS: BILLING COMPANY & ADDRESS:  
NELSON MACH PRODUCTS  
7131 JACK RABBIT RD  
ATTN MONTE DICK  
HOUSTON TX 77095  
PHONE: 713-819-1071  
S.I.C.: 3469  
STATUS: CESSG US EPA ID: TXCESSG STATE ID: TX CESSG

**FREQ: 24 WEEKS**

CONTINUED ON NEXT PAGE

EPAHQ082001812

83/25/2008 08:24 281-288-6518

SK MISSOURI CITY TX

PAGE 82/86

31363-R4505 (REPRINT)  
PARTS WASHER SERVICE  
GENERAL ADMINISTRATION

PREQUALIFICATION EVALUATION

MADE BY: X  
COMPLETED: 02/01/08  
REVISED: 03/18/08  
RUN: 03/24/08

SKVS APPROVED

BRANCH/SUBMITTER: 607302  
MISSOURI CITY TX (HOUSTON)

CONTROL #: 2274656-9  
LAB #: 2274656-9  
PROFILE REF #: 3393542

C. GENERAL MATERIAL & REGULATORY INFORMATION:

NAME OF MATERIAL: GARNET AND WATER

PROCESS DESCRIPTION: CUTTING

ODOR: NONE

YES NO

- X REGULATED OR LICENSED RADIOACTIVE WASTE
- X REGULATED MEDICAL / INFECTIOUS WASTE
- X WASTE SUBJECT TO BENZENE NESHAP REGULATIONS
- X TSCA REGULATED PCB WASTE
- X REGULATED OZONE DEPLETING SUBSTANCE
- X CERCLA REGULATED (SUPERFUND) WASTE
- X WASTE CONTAINS UHC'S/CONSTITUENTS OF CONCERN (CESG6)
- X UHC IN SECTION D
- X EXEMPT WASTE: IF YES, LIST REFERENCE 40 CFR
- X STATE HAZARDOUS WASTE
- X ARTESIA NS: DIOXIN-LISTED WASTE W/F020-F023 OR F02
- X EPA HAZARDOUS WASTE

STATE WASTE CODES: TX CESR6091  
EPA WASTE CODES: NONE

CTRY: USA

\*\*\* SKVS APPROVED

CONTINUED ON NEXT PAGE

31363-R4505 (REPRINT)  
PARTS WASHER SERVICE  
GENERAL ADMINISTRATION

## PREGUALIFICATION EVALUATION

PAW 3 UP 8  
COMPLETED: 02/01/08  
REVISED: 03/18/08  
RUN: 03/24/08

SKVS APPROVED

BRANCH/SUBMITTER: 607302  
MISSOURI CITY TX (HOUSTON)

CONTROL #: 2374656-9  
LAB #: 2374656-9  
PROFILE REF #: 2093842

D MATERIAL COMPOSITION: ANALYTICAL  
1. CHEMICAL/PHYSICAL CONSTITUENTS:

RMP COMPOUND DENOTED WITH #

\* NO TARGET HALOGENATED SOLVENTS DETECTED

RESIDUE DESCRIPTION: GARNET, WATER

## 2. ELEMENTAL CONSTITUENTS:

WASTE CONTAINS NO DETECTABLE ELEMENTS/METALS

THE FOLLOWING VALUES ASSOCIATED WITH THE "C" ARE NON-DETECTED. THE VALUE LISTED IS THE REPORTING LIMIT.

ANTIMONY	C	6.20	MG/KG
ARSENIC (D004)	C	4.10	MG/KG
BARIUM (D005)	C	4.10	MG/KG
BERYLLIUM		12	MG/KG
CADMIUM (D006)	C	.41	MG/KG
CHROMIUM (D007)		22.00	MG/KG
COBALT		2.00	MG/KG
COPPER		86.00	MG/KG
IRON		12000.00	MG/KG
LEAD (D008)	C	2.10	MG/KG
MAGNESIUM		2100.00	MG/KG
MANGANESE		370.00	MG/KG
MERCURY (D009)	C	4.10	MG/KG
NICKEL		3.60	MG/KG
PHOSPHORUS		28.00	MG/KG
SELENIUM (D010)	C	8.20	MG/KG
SILICON		99.00	MG/KG
SILVER (D011)	C	.41	MG/KG
THALLIUM	C	12.00	MG/KG
TITANIUM		120.00	MG/KG
VANADIUM		9.60	MG/KG
ZINC		13.00	MG/KG

## E. REACTIVE CHARACTERISTICS: WASTE EXHIBITS NO REACTIVE CHARACTERISTICS

YES	NO	
X		EXPLOSIVE
X		SHOCK SENSITIVE
X		WATER REACTIVE
X		AIR REACTIVE
X		REACTIVE CYANIDE
X		REACTIVE SULFIDE
X		POLYMERIZABLE

00  
00

\*\*\* SKVS APPROVED

CONTINUED ON NEXT PAGE

03/25/2008 08:24 281-288-5518

SK MISSOURI CITY TX

PAGE 84/86

91263-R4503 (REPRINT)  
PARTS WASHER SERVICE  
GENERAL ADMINISTRATION

PREGVALIFICATION EVALUATION

COMPLETED: 02/01/08  
REVISED: 03/18/08  
RUN: 03/24/08

SKVS APPROVED

BRANCH/SUBMITTER: 607302  
MISSOURI CITY TX (HOUSTON)

CONTROL #: 2374656-9  
LAB #: 2374656-9  
PROFILE REF #: 3392542

F. MATERIAL PHYSICAL CHARACTERISTICS @ 70F:

# OF PHASES	2.0	
LIQUID %	41.0	
SLUDGE %	59.0	
NO FLASH AT	200.0	F
PH NON-AQUEOUS		
PH	7.0	

COMMENTS: FLAMMABILITY AT 200 F: NO FLASH

SK SALES REP NAME: JOE DANGURA

\*\*\* SKVS APPROVED

CONTINUED ON NEXT PAGE

EPAHO082001815

03/25/2008 08:24 281-288-8518

SK MISSOURI CITY TX

PAGE 05/06

91363-R4505 (REPRINT)  
PARTS WASHER SERVICE  
GENERAL ADMINISTRATION

PREQUALIFICATION EVALUATION

COMPLETED: 03/01/08  
REVISED: 03/18/08  
RUN: 03/24/08

SKVS APPROVED

BRANCH/SUBMITTER: 607302  
MISSOURI CITY TX (HOUSTON)

CONTROL #: 2374656-9  
LAB #: 2374656-9  
PROFILE REF #: 3393542

CORPORATE REVIEW:  
DISPOSITION: SKVS APPROVED  
TECHNOLOGY DISPOSITION CODE: WWUL SKVS LIQUIDS  
REVIEW DATE: 03/18/2008  
SALES PART: 0876570 SKVS LIQUIDS 550  
REVIEWERS: AM

APPROVED FACILITIES:  
SAFETY-KLEEN SYSTEMS, INC.  
1590 INDUSTRIAL ROAD  
MISSOURI CITY, TX 77459  
FED EPA#: TX0010803203  
STATE EPA#: 71144  
TELEPHONE: 2812086500  
STATE AUTH:

APPROVED DOT - SHIPPING DESCRIPTION  
0023136 DRUM OR BULK NON-REGULATED LIQUID

STATE/PROV. CODES: TX CESQ6091  
US EPA WASTE CODES: NONE  
USA

REVIEW COMMENTS:

\*\*\*\*\*  
\*  
\* DISPOSAL TECHNOLOGY: SAFETY-KLEEN LIQUID VACUUM SERVICES.  
\*  
\* RECEIVED TCLP METALS TO REMOVE THE D007 WASTE CODE. 9/18/08 MS  
\*\*\*\*\*

THIS SERVES AS NOTICE PER FEDERAL AND STATE REGULATIONS THAT EACH FACILITY  
NOTED ABOVE HAS THE APPROPRIATE PERMITS, CAPABILITIES, CAPACITY, AND IS  
WILLING TO ACCEPT THE MATERIAL AS DESCRIBED IN THE APPROVAL SECTION.  
IT IS THE RESPONSIBILITY OF THE GENERATOR TO NOTIFY SAFETY-KLEEN CORP. OF  
ANY CHANGES IN THE PROCESS GENERATING THIS WASTE STREAM.

\*\*\* SKVS APPROVED

CONTINUED ON NEXT PAGE

03/25/2008 08:24 281-288-6510

SK MISSOURI CITY TX

PAGE 06/06

363-R4505 (REPRINT)  
ARTS WASHER SERVICE  
GENERAL ADMINISTRATION

PREQUALIFICATION EVALUATION

COMPLETED: 02/01/08  
REVISED: 03/18/08  
RUN: 03/24/08

SKVS APPROVED

BRANCH/SUBMITTER: 607302  
MISSOURI CITY TX (HOUSTON)

CONTROL #: 2374656-9  
LAB #: 2374656-9  
PROFILE REF #: 3393542

-----  
ADDITIONAL ANALYTICAL

RESULT DESCRIPTION/ELEMENT

RESULT

PCB  
PCB AMOUNT  
OTHER

NONE

< 1.0 MG/KG

THE ANALYSIS CONTAINED HEREIN ARE PERFORMED SOLELY FOR THE PURPOSE OF  
QUALIFYING THE ANALYZED MATERIALS FOR ACCEPTANCE BY SAFETY-KLEEN CORP. IN  
ACCORDANCE WITH ITS PERMITS AND PROCESSING CAPABILITIES.

NOTICE OF LAND DISPOSAL RESTRICTION OF WASTE IS NOT REQUIRED.

\*\*\* SKVS APPROVED

END OF DOCUMENT

Select Env.

NH - Class 1

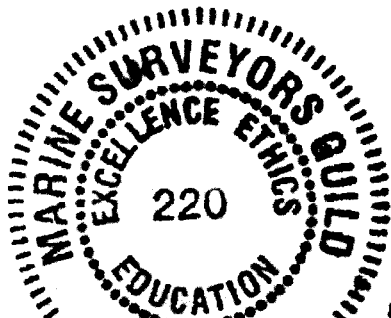


CLIENT: CES  
 Lab Order:  
 Project:  
 Lab ID:

Client Sample ID: T2008-1610H  
 Collection Date:

Matrix:

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>ICP METALS, TCLP LEACHED</b>		<b>SW1311/6020</b>				Analyst: RS
Arsenic	ND	0.100		mg/L	1	3/14/2008
Barium	0.309	0.150		mg/L	1	3/14/2008
Cadmium	ND	0.0500		mg/L	1	3/14/2008
Chromium	ND	0.0500		mg/L	1	3/14/2008
Lead	ND	0.100		mg/L	1	3/14/2008
Mercury	0.00285	0.00100		mg/L	1	3/14/2008
Selenium	ND	0.100		mg/L	1	3/14/2008
Silver	ND	0.0500		mg/L	1	3/14/2008
<b>METALS BY ICP-MS FOR SOLIDS</b>		<b>SW6020</b>				Analyst: RS
Arsenic	0.892	0.163		mg/Kg	1	3/14/2008
Barium	119	0.174		mg/Kg	1	3/14/2008
Cadmium	1.11	0.177		mg/Kg	1	3/14/2008
Chromium	12.7	0.0950		mg/Kg	1	3/14/2008
Lead	9.98	0.323		mg/Kg	1	3/14/2008
Mercury	8.25	0.0620		mg/Kg	1	3/14/2008
Selenium	0.279	0.136		mg/Kg	1	3/14/2008
Silver	3.56	0.0670		mg/Kg	1	3/14/2008
<b>VOLATILES TCLP</b>		<b>SW8260B</b>				Analyst: RS
1,1-Dichloroethene	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
1,2-Dichloroethane	10.8	10.0		µg/L	1	3/13/2008 2:00:00 PM
2-Butanone	ND	100		µg/L	1	3/13/2008 2:00:00 PM
Benzene	359	10.0		µg/L	1	3/13/2008 2:00:00 PM
Carbon tetrachloride	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Chlorobenzene	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Chloroform	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Tetrachloroethene	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Trichloroethene	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Vinyl chloride	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Surr: 1,2-Dichloroethane-d4	75.4	60-140		%REC	1	3/13/2008 2:00:00 PM
Surr: 4-Bromofluorobenzene	107	80-125		%REC	1	3/13/2008 2:00:00 PM
Surr: Dibromofluoromethane	118	70-140		%REC	1	3/13/2008 2:00:00 PM
Surr: Toluene-d8	81.0	70-130		%REC	1	3/13/2008 2:00:00 PM



**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Select Env.

NH - Class 1

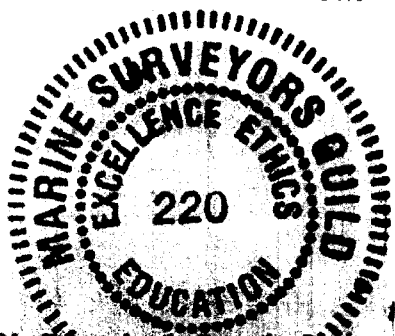


CLIENT: CES  
 Lab Order:  
 Project:  
 Lab ID:

Client Sample ID: T2008-1610H  
 Collection Date:

Matrix:

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>ICP METALS, TCLP LEACHED</b>		<b>SW1311/6020</b>				Analyst: RS
Arsenic	ND	0.100		mg/L	1	3/14/2008
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Lead	ND	0.100		mg/L	1	3/14/2008
Mercury	0.00285	0.00100		mg/L	1	3/14/2008
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Mercury	8.25	0.0620		mg/Kg	1	3/14/2008
Selenium	0.279	0.136		mg/Kg	1	3/14/2008
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Chloroform	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Tetrachloroethene	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Trichloroethene	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Vinyl chloride	ND	10.0		µg/L	1	3/13/2008 2:00:00 PM
Surr: 1,2-Dichloroethane-d4	75.4	60-140		%REC	1	3/13/2008 2:00:00 PM
Surr: 4-Bromofluorobenzene	107	80-125		%REC	1	3/13/2008 2:00:00 PM
Surr: Dibromofluoromethane	118	70-140		%REC	1	3/13/2008 2:00:00 PM
Surr: Toluene-d8	81.0	70-130		%REC	1	3/13/2008 2:00:00 PM



Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected at the evaluation limits  
 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

Noltex- Info requested

U.S. Department of Labor

Occupational Safety & Health Administration

Houston South Area Office

17625 El Camino Real Suite 400

Houston, Texas 77058

281/286-0583 Fax:281/286-6352



To: Sessie L. Hicks

From: Yolanda Torres

Fax: 281-930-2316

Date: 10-15-09

Pages: 3

Phone: 281-286-0583 ext. 237

Re: Sept. 11, 2009 T-618  
Tank Explosion CET Bldg.

cc: \_\_\_\_\_

☐ Review

☒ Reply

☐ Urgent

☐ Comments: Mr. Hicks,

Please call if you have any questions.  
Yolanda Torres



**Safety and Health**  
**Add Value**

EPAHO082001823



**Occupational Safety & Health Administration  
Houston South Area Office  
17625 El Camino Real, Suite 400  
Houston, Texas 77058  
Office (281)286-0583 Fax (281)286-6352**

October 15, 2009

Clean Harbors Environmental Services, Inc.  
2027 Independence Parkway South  
La Porte, Texas 77571  
Attn: Jesse L. Hicks

The U. S. Department of Labor Occupational Safety and Health Administration, Houston South Area Office is conducting a safety and health inspection #312919558 regarding a work related incident which occurred approximately on September 11, 2009 at the location of well #1, custom environmental transport building at 2027 Independence Parkway South, La Porte, Texas 77571. OSHA Houston South Area Office requests the following document(s) as a result of the inspection:

1. A copy of any and all maintenance work orders to include but not limited to inspection history, records, reports, repairs, and the installation date of the pump and water tank T-618 at Well #1.
2. A copy of any and all maintenance work orders to include but not limited to inspections history, records, reports, repairs, and the installation date of pressure relief valve #72174351, manufactured by McDonald, Dubuque, Iowa, located at well #1, at the custom environmental transport building.
3. A copy of the U1 design, specifications for tank T-618, located at Well #1, at the custom environmental transport building.
4. A copy of the specifications for pressure relief valve #72174351, manufactured by McDonald, Dubuque, Iowa, located at Well #1, at the custom environmental transport building.
5. A copy of the company's policy that addresses third party employees who are visiting the jobsite located at 2027 Independence Parkway South, La Porte, Texas 77571.

6. A copy of the company's policy that addresses manually manipulating the pressure switch which starts the pump at Well #1, located at the custom environmental transport building.
7. A copy of Puffer-Sweiven LP, written test report for the pressure relief valve #72170351, manufactured by McDonald.
8. A copy of Clean Harbors Environmental Services, Inc. investigative findings and report resulting from the pressure relief valve #72170351 failure and tank T-618 explosion at Well #1, custom environmental transport building.

Please provide the requested documents no later than October 22, 2009.

Thank you in advance for your cooperation.



Yolanda Torres  
Compliance Safety and Health Officer  
Occupational Safety & Health Administration  
Houston South Area Office  
17625 El Camino Real, Ste 400  
Houston, TX 77058

**OSHA's Mission:** *To assure safe and healthful working conditions for working men and women.*

**HSOA's VISION:** *Utilizing the talents and skills of OSHA's finest, we will execute "The Missions" professionally, effectively, efficiently and with respect toward one another and our constituents. To meet this vision we will use the values set forth in TEAM CORE.*

# PCI

## GENERATOR'S WASTE PROFILE SHEET



COMPLETE - PRINT - SIGN - FAX (219) 397-6411

### A. GENERATOR INFORMATION

Generator Name Noltex  
Facility Address 12220 Strang Rd City La Porte State TX Zip 77571  
Customer Name Joy Baker  
Customer Phone (281) 701-8511 Customer FAX (713) 676-1676  
Generator USEPA/Federal ID# TX 000001110101  
Is the Generator a "Conditionally Exempt Small Quantity Generator"? ☐ Yes ☒ No  
Generator's S.I.C. Code (4 Digit)           

### BILLING INFORMATION (Check HERE if billing information is the same as above information) ☐

Billing Name CES Environmental Services  
Billing Address 4904 Griggs Rd City Houston State TX Zip 77021  
Billing Contact Name Joy Baker  
Billing Phone (713) 676-1460 Billing FAX (713) 676-1676  
PCI Sales Rep. Jamie Stieffel

### B. WASTE STREAM INFORMATION

Name of the Waste Waste Organics  
Original Process Generating Waste Production of Ethylene Vinyl Alcohol  
Is a representative sample provided? ☐ Yes ☒ No Is a MSDS attached? ☒ Yes ☐ No  
Is there any analytical attached? ☐ Yes ☒ No

### C. GENERAL CHARACTERISTICS

Color White Odor Mild  
Physical State @ 70 F    100% %Liquid    Select    %Sludge    Select    %Solid    Select    %Powder  
                                 Select    %Gas (Aerosol)    Select    %Gas (Other)    Select    %Other  
Phases    Single Layer ☒    Multi Layer ☐    How Many  
Btu/lb    <3,000 ☐    3,000-5,000 ☐    5,000-10,000 ☒    >10,000 ☐  
PH    <2.0 ☐    2.0 to 4.0 ☐    4.0 to 10.0 ☒    10.0 to 12.5 ☐    >12.5 ☐  
Liquid Flash Point    <73 F ☒    73 to 99 F ☐    100 to 139 F ☐    140 to 200 F ☐    >200 F ☐    None ☐  
Specific Gravity    0.87    % Total Halogens    Select

### D. CHEMICAL COMPOSITION (Total of Maximum concentration must > or = to 100%)

Constituents	Min%	Max%	Constituents	Min%	Max%
<u>Acetylaldehyde</u>	Select	20%	<u>Methyl Acetate</u>	Select	10%
<u>Acetic Acid</u>	Select	10%	<u>Vinyl Acetate</u>	60%	80%
<u>Methanol</u>	20%	40%	<u>Water</u>	Select	20%

EPAHO082001826

# E. OTHER WASTE STREAM INFORMATION

Is this waste a "USED OIL" per 40CFR PART 279?

Yes ☐ No ☒

If "Yes", does the total halogen content exceed 1,000 ppm?

Yes ☐ No ☒

If "Yes", can you identify the "Chlorinated Constituent" present in the oil?

Yes ☐ No ☒

If "Yes", can you rebut the presumption that this material is a "Hazardous Waste"?

Yes ☐ No ☒

Does the Waste have any of the following characteristics? (Please select all that apply)

- ☐ Oxidizer    ☐ Organic Peroxide    ☐ Water Reactive    ☐ Air Reactive    ☐ Pyrophoric    ☐ Dioxin  
☐ Radioactive    ☐ Infectious    ☐ Pathogen    ☐ Carcinogen    ☐ Etiological    ☐ Aerosols  
☐ Explosive    ☐ Shock Sensitive    ☐ Undergo Hazardous Polymerization    ☐ Cylinder

Does the Waste contain any of the following?

None or LESS THAN or ACTUAL

PCB'S ☒ <50ppm ☐  ppm

Cyanides ☒ <50ppm ☐  ppm

None or LESS THAN or ACTUAL

Sulfides ☒ <50ppm ☐  ppm

Phenolics ☒ <50ppm ☐  ppm

Does the waste represented by this profile contain benzene?

Yes ☐ No ☒

If "Yes", please list concentration in  ppm.

Is the Waste subject to the benzene waste operations NESHAP? (40CFR Part 61, Subpart FF) Yes ☐ No ☒

Answer "Yes" if your waste contains benzene and if the SIC code from your facility is one of the following:

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851  
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

Is the Waste subject to RCRA Subpart CC controls? (40 CFR 265 SUBPART CC)

Yes ☒ No ☐

If "No", does the Waste meet the organic LDR exemption for UHC'S? (40 CFR 268.48, 268.7)

Yes ☐ No ☐

If "No", does the Waste contain <500ppmw volatile organic(VO)? (40 CFR 265 SUBPART CC)

Yes ☐ No ☐

Does the Waste contain any Class I or Class II ozone-depleting substances?

Yes ☐ No ☒

If PCB'S are present, is the waste regulated by TSCA per 40 CFR 761?

Yes ☐ No ☒

# F. SHIPPING INFORMATION:

Method of Shipment

Bulk Liquid(> 500 Gallons) ☒

Bulk Solids(roll-off box, vacuum box, etc) ☐

Lab Pack ☐

Cubic Yard Boxes ☐

Totes ☐

(Please specify size)  5000 gal

Drums (Select size) Select

Other (Please specify)

Shipping Frequency

Number of Units

Month

2

Quarter

Year

Other

# G. R.C.R.A. CHARACTERIZATION:

Is this a USEPA "Hazardous Waste" per 40CFR 261.3?

Yes ☒ No ☐

If "No", Please skip to section H.

Is this a "Universal Waste" per 40CFR part 273?

Yes ☐ No ☒

Is this a "Characteristic Waste"?

Yes ☒ No ☐

If "Yes", is it: ☒ D001 Ignitable

☐ D002 Corrosive

☐ D003 Reactive

Characteristic for Toxic Metals:

☐ D004

☐ D005

☐ D006

☐ D007

☐ D008

☐ D009

☐ D010

☐ D011

G. R.C.R.A. CHARACTERIZATION: (Cont.)

Is this an "F" or "K" Listed waste or mixed with one?

Yes ☐

No ☒

If "Yes", Please list all applicable code(s) from 40CFR261.31 and/or 261.32:

Is this a commercial chemical product or spill cleanup that would carry a "U" or "P"

waste code under 40CFR 261.33 (e) or (f)

Yes ☐

No ☒

If "Yes", Please list all applicable waste code(s)

Is this a state regulated waste?

Yes ☒

No ☐

If "Yes", Please list all codes. 0001203H

H. DOT SHIPPING INFORMATION:

Is this a U.S. Dept. of Transportation (USDOT) Hazardous Material?

Yes ☒

No ☐

Proper Shipping Name per 49CFR 172.101 Hazardous Materials Table: Flammable Liquids, NOS

"Reportable Quantity" (if any) 100 lbs

Hazard Class or Division No. 3

UN/NA # UN1993

Packing Group

☐ I

☒ II

☐ III

Is this a "Poison Inhalation Hazard"?

Yes ☐

No ☒

If "Yes", Please indicate Hazard Zone

☐ Zone A

☐ Zone B

☐ Zone C

☐ Zone D

☐ Other

List two primary hazardous constituents: 1 acetaldehyde

2

I. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability. No deliberate or willful omissions of composition or properties exist and that all known or suspected hazards have been disclosed. I also certify that the obtained sample is representative of the waste material described above and give PCI permission and consent to make amendments and corrections.

Name

*Joy Baker*

Title

*Auth. Rep. for Generator*

Signature

*Joy Baker*

Date

*1/28/08*

THIS SPACE IS FOR PCI APPROVALS DEPARTMENT USE

Date Received

APPROVER'S INITIALS

PROFILE NUMBER 1

PROCESS CODE

PRICE

TRANS

PROPER WASTE CODES

PROPER D.O.T. SHIPPING NAME

HAZARD CLASS

UN

NA

PACKING GROUP

I

II

III

N.O.S DESCRIPTIONS

YARD INSTRUCTIONS

NO LANDFILL CUSTOMER

NO SAMPLE APPROVAL

RUN SALES ANALYTICAL

N/H FOR METALS PER GEN.

RUN OX. SCREEN ON INCOMING

MSDS ATTACHED

SEE ATTACHED ANALYTICAL

RUN COMP. ON INCOMING

FORM CODE W

SYSTEM CODE H

**Recyclable Feedstock Profile**  
(including nonhazardous recyclable materials – NRMs)

**Generator and Facility Information**

Generator Name: **Noltex, L.L.C.**

Generating Facility Name & Physical Address: **12220 Strang Road**

City: **LaPorte**

State: **Texas**

Zip: **77571**

Generator Contact Name & Title: **Debbie Dalton HS&E Coordinator**

Telephone #: **281.842.5031**

Customer Name: **CES Environmental Services, Inc.**  
(If different from Generator)

Invoice Mailing Address: **4904 Griggs Rd**

City: **Houston**

State: **TX**

Zip: **77021**

**Recyclable Feedstock Information**

1. Material Name: **Dewatering box**
2. Process Generating the material (describe in detail): **Riverwater solids generated from dewatering box.**
3. Physical Characteristics (solid, semi-solid, moisture content, odor, etc.): **Solid/ semi solid**
4. Volume (yards, tons etc) **15 yards** Frequency (weekly, monthly, etc): **Monthly**
5. Is this material ever generated as hazardous waste by the Facility? **No**  
(In accordance with regulations in 40 CFR Part 261 and/or 30 TAC Chapter 335 / Chapter 330)

**CHECK ALL THAT APPLY**

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> <b>Generator Facility</b>                 | <input type="checkbox"/> <b>Non Industrial Facility</b> | <input type="checkbox"/> <b>Other</b>                  |
| <input type="checkbox"/> <b>Industrial Facility (Waste Code Not Required)</b> | <input type="checkbox"/> <b>Railroad Corporation</b>    | <input type="checkbox"/> <b>Transportation Service</b> |

**You MUST Complete This Section if a Waste Code is Required**

Facility TCEQ Generator ID Number: **84348**  
Material Waste Code: **00114031**  
Container Storage Area (3-digit):

**Attachments**

- |   |
|---|
| <input checked="" type="checkbox"/> <b>Physical Sample (one quart)</b>                          |
| <input type="checkbox"/> <b>Process Knowledge Certification</b>                                 |
| <input type="checkbox"/> <b>MSDS</b>  |
| <input type="checkbox"/> <b>Non Industrial Certification</b>                                    |
| <input type="checkbox"/> <b>Laboratory Analytical (chain-of-custody and lab QA/QC REQUIRED)</b> |

By signing this form, I certify that I am an authorized representative of the generating facility, and I warrant the recyclable materials represented are not a regulated hazardous waste (or treatment residue) by the USEPA, by an applicable State authority, or by any applicable local authority, and do not contain PCBs or other materials regulated by TSCA (i.e., 40 CFR 761). Further, I certify the material was sampled and analyzed in accordance with TCEQ regulation and the information and analytical provided is representative of the candidate material.

Print Name:

Signature: 

Date:

Title:

**5/20/08**  
**Senior Vice President**



## SPECIAL WASTE UPDATE / RENEWAL CERTIFICATION

### GENERATOR INFORMATION

1. Generator Name: NO REX
2. Address: 12220 Serrano Rd  
City: \_\_\_\_\_ County: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_
3. Site Location (if different): \_\_\_\_\_
4. Contact Name: \_\_\_\_\_
5. Phone Number: \_\_\_\_\_
6. Fax Number: \_\_\_\_\_

### CUSTOMER/BILLING INFORMATION

1. Billing Name: CES
2. Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_  
State: \_\_\_\_\_ Zip: \_\_\_\_\_
3. Contact Name: \_\_\_\_\_
4. Phone Number: \_\_\_\_\_
5. Fax Number: \_\_\_\_\_
6. Is there a service agreement on file? ☐ YES ☐ NO

\*\*\*PLEASE UPDATE ANY INCORRECT INFORMATION\*\*\*

REPUBLIC APPROVAL NUMBER: 04-0060 EXPIRATION DATE: 7/19/08

WASTE DESCRIPTION/NAME: EVOH Resin Solid

### SUPPLEMENTAL INFORMATION

1. Attached Document(s): ☐ None ☐ MSDS ☐ Certified Analytical Report ☐ Memo/Letter ☒ Process Knowledge
2. If analytical data is attached, is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws? ☐ YES ☐ NO

### SHIPPING INFORMATION

1. Packaging: ☒ Bulk Solids ☐ Bulk Liquids ☐ Drums ☐ Roll-Off ☐ Dump Truck ☐ Tank Truck ☐ Other: \_\_\_\_\_
2. Estimated Volume: 25 ☐ Tons ☒ Cubic Yards ☐ Drums ☐ Gallons ☐ Other: \_\_\_\_\_
3. Shipping Frequency: \_\_\_\_\_ per ☐ One Time ☒ Monthly ☐ Yearly ☐ Other: \_\_\_\_\_
4. Designated Landfill(s): SEA BREEZE
5. Disposal Method: ☒ Landfill ☐ Solidification ☐ Bioremediation ☐ Other: \_\_\_\_\_

In the event the physical or chemical nature of the waste stream is altered/changed, the landfill must be immediately notified in writing, and new analytical must also be submitted.

### Certification Statement:

I hereby certify that the physical and chemical characteristics, as well as the process(es) generating the above named waste streams, have not changed since the previous approval.

COMPANY NAME: CES (Agent for generator)

DATE: 7/22/08

PRINTED NAME: Morgan McCarty

SIGNATURE: [Signature]

Form SW05 (2003)

EPAHO082001830

## Republic Waste Services of Texas, LTD

### Non-Hazardous Waste Profile

(MUST BE FILLED OUT COMPLETELY)

For more information, please call Republic CSC at (800) 313-0880.

**A. GENERATOR INFORMATION**

1. Generator Name Nolan LLC  
 2. Site Location 12320 Stony Road  
 3. City LaPorte  
 State TX Zip Code 77571  
 4. Phone 713-416-4180  
 5. Fax 713-676-1876  
 6. State Facility ID# 84345  
 7. State Waste Code 00164032

**B. CUSTOMER INFORMATION**

1. Customer Name CBS Environmental Services, Inc.  
 2. Address 49 W. Griggs Road  
 3. City Houston  
 State TX Zip Code 77021  
 4. Phone 713-676-1460  
 5. Fax 713-676-1876  
 6. Contact Ju. Rita Thomas  
 7. Title Office Manager

**C. WASTE STREAM INFORMATION**

1. Common Name of Waste Waste Solids (EVOH Resin Strands, Pellets and Paste)  
 2. Detailed Description of Process Generating Waste and Material Description EVOH Resin strands, pellets and paste from the manufacturing of plastic materials and resin  
Material: There will be no free liquids. All will pass paint filter test  
 3. Industrial Generator ☒ Yes ☐ No  
 4. Municipal Generator ☐ Yes ☒ No  
 5. Physical State at 70° ☒ Solid ☐ Semisolid ☐ Liquid ☐ Powder ☐ Combination  
 6. Odor ☐ Yes ☒ No Describe \_\_\_\_\_  
 7. Color white  
 8. pH Range N/A  
 9. Flash Point N/A  
 10. Reactive ☐ Yes ☒ No WHF  
 11. Free Liquid ☐ Yes ☒ No  
 12. Water content % by volume 0%  
 13. Viscosity N/A  
 14. Is the analytical attached derived from testing a representative sample (40 CFR 261.86)? ☐ Yes ☒ No  
 15. Does the waste contain radioactive or U.S.D.O.T. hazardous materials? ☐ Yes ☒ No

**D. SUPPLEMENTAL INFORMATION**

☐ None ☐ MSDS ☐ Analytical Data ☒ Process Knowledge Number of pages attached 4

**E. SHIPPING INFORMATION**

1. Packaging ☐ Bulk Liquid ☒ Bulk solid ☐ Drum ☐ Other \_\_\_\_\_ Shipping Frequency Monthly  
 2. Estimated Volume 25 ☐ Gallons ☒ Yards ☐ Drums ☐ Other \_\_\_\_\_  
 3. Designated disposal facility ☐ Republic CSC ☐ Midco Landfill ☐ J&T Landfill ☒ Brazoria County  
☐ North County Landfill ☐ Charter Landfill ☐ Truwayway/San Angel ☐ Alpine ☐ Presidio

**F. GENERATOR / CUSTOMER CERTIFICATION**

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste as defined by the CERCLA in 40 CFR 301, nor does it or its PCBs regulated under TSCA 40 CFR 761.

Ryan Thomas am employed by CBS Environmental Services, Inc. and am authorized to sign this request for:  
Nolan LLC Signature Ryan Thomas Date June 24, 2004  
 Company Name Signature Date

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)			
Compliance Officer <u>Ryan Thomas</u>		State Fee Applies to Class 1	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Date <u>7-6-04</u>	X Approved	State Fee Applies to MSW	X Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Additional Information _____		Current WDA on file	X Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Job # <u>04-0060</u>			



Profile # 0312003

☒ BATON ROUGE ☒ HOUSTON ☐ BAYTOWN ☐ HAMMOND ☐ DOMINGUEZ ☐ MARTINEZ**Material Profile Data Sheet**

Sales Person \_\_\_\_\_

**A. General Information**

Contact Joy Baker  
Customer Name CES Environmental Services, Inc.  
Address 4904 Griggs Road  
City Houston  
State TX Zip 77021  
Phone # 713-676-1460 Fax # 713-676-1676  
USEPA ID# TXD008950461  
E-Mail Address jbaker@cesenvironmental.com

**SHIPPING FACILITY**

Contact \_\_\_\_\_  
Shipper Name Noltex  
Address 12220 Strang Road  
City LaPorte  
State TX Zip 77572  
Phone # 713-842-5057 Fax # \_\_\_\_\_  
USEPA ID# TXR000011106  
E-Mail Address jbaker@cesenvironmental.com  
State Gen. ID No. 84348

**B. Waste Description** Waste Name \_\_\_\_\_

Waste Organics

Source Code G 0 7 Form Code W 2 0 3 Is a representative sample provided? ☒ Yes ☐ No  
Process Description: Production of Ethylene Vinyl Alcohol

**C. General Characteristics**

(at 70° F unless otherwise specified)

Color Clear ☒ Liquid 100 %  
Odor Vinyl Acetate ☐ Solid \_\_\_\_\_  
☐ None ☐ Strong ☐ Sludge \_\_\_\_\_  
☒ Mild

**D. Waste Management Methods**

PHASES ☐ Most Appropriate Method  
☒ Single Layer ☐ Specific Facility Restriction:  
☐ Double Layer  
☐ Multi-Layer

☐ Wastewater or ☒ Non-Wastewater as defined in 40 CFR 268.2**E. Handling Instructions**

If special handling techniques are required, such as spills, fire response, etc.:  
Extinguish w/ Carbon Dioxide, Dry Chem., Foam. Use SCBA. Cool surroundings with water spray.

**F. RCRA Information**Is this a USEPA hazardous waste? ☒ Yes ☐ NoIs this an acutely hazardous waste (40 CFR 261.31 and 33) ☐ Yes ☒ NoList the USEPA hazardous waste codes, Specify the nature of any D003 waste in section H 1: D001

☐ Regulated Medical / Infectious waste  
☐ Regulated Subpart CC Waste (VOC's ≥ 500 ppm by wt.)  
☐ Hazardous Debris (Subject to alternative LDR treatment standards)

☐ CERCLA Regulated (Superfund) Waste  
☐ Spent Solvent  
☐ Exempt Waste (list reference in 40 CFR)

List any State Waste Codes or other state designations: \_\_\_\_\_

0001203H**G. Shipping Information**

DOT PROPER SHIPPING DESCRIPTION

Waste Flammable Liquids, NOSTechnical N.O.S. descriptions Vinyl Acetate, Methanol ERG # 128HAZ. CLASS 3 UN or NA ID Number UN1993 Packing Group II RQ 100☒ TRUCK ☐ RAIL**BULK SHIPPING CONTAINERS**

Quantity/Size 5000 gal/TT Frequency Monthly

**CONTAINER TYPE**

☒ Tanker  
☐ Vac. Trailer  
☐ Other \_\_\_\_\_

**H. (1) Hazardous Characteristics and Other Components-Section must be completed.**

<input type="checkbox"/> Fuming/Smoking Waste	<input type="checkbox"/> Water Reactive	<input type="checkbox"/> Acid Reactive	<b>(3)Metals</b>	Total	Total	TCLP	
<input type="checkbox"/> Dioxins & Furans	<input type="checkbox"/> Air Reactive	<input type="checkbox"/> Alkaline Reactive		Minimum	(ppm)	(mg/l)	
<input type="checkbox"/> Ozone Depletion 40 CFR 82	<input type="checkbox"/> Explosive	<input type="checkbox"/> Polymerizable		Detection			
<input type="checkbox"/> Chlorine _____ %	<input type="checkbox"/> Radioactive	<input type="checkbox"/> Inorganic		Limit			
<input type="checkbox"/> Bromine _____ %	<input type="checkbox"/> Biological	<input type="checkbox"/> Aqueous		Arsenic (As)	1.30 ppm	0.99	0.99
<input type="checkbox"/> Iodine _____ %	<input type="checkbox"/> Shock Sensitive	<input type="checkbox"/> Peroxides		Thallium (Tl)	1.44 ppm	0.99	0.99
<input type="checkbox"/> Fluorine _____ ppm	<input type="checkbox"/> Asbestos	<input checked="" type="checkbox"/> Ignitable		Silver (Ag)	0.20 ppm	0.99	0.99
<input type="checkbox"/> Cyanides _____ ppm	<input type="checkbox"/> Affected Benzene Waste			Barium (Ba)	0.005 ppm	0.99	0.99
<input type="checkbox"/> Sulfides _____ ppm	<input type="checkbox"/> Controlled Benzene Waste			Beryllium (Be)	0.01 ppm	0.99	0.99
<input type="checkbox"/> Phenolics _____ ppm	<input type="checkbox"/> 40 CFR 61 Subpart FF			Chromium (Cr)	0.08 ppm	0.99	0.99
<input type="checkbox"/> PCB _____ ppm	<input type="checkbox"/> Oxidizer		Antimony (Sb)	0.86 ppm	0.99	0.99	
			Lead (Pb)	0.47 ppm	0.99	0.99	
			Cadmium (Cd)	0.06 ppm	0.99	0.99	
			Mercury (Hg)	0.01 ppm	0.05	0.05	
			Selenium (Se)	5.20 ppm	0.99	0.99	
			Nickel (Ni)	1.01 ppm	0.99	0.99	
			Cobalt (Co)	0.365 ppm	0.99	0.99	
			Manganese (Mn)	0.03 ppm	0.99	0.99	
			Molybdenum (Mo)	0.417 ppm	0.99	0.99	
			Vanadium (V)	0.091 ppm	0.99	0.99	
			Zinc (Zn)	0.185 ppm	1.00	1.00	
			Copper (Cu)	0.526 ppm	0.99	0.99	
			Chromium (6+)	0.007 ppm	0.99	0.99	
			Aluminum (Al)	0.05 ppm	2.00	2.00	
			Titanium (Ti)	0.05 ppm	0.01	0.00	

I certify metals are below MDL levels  
by knowledge or analytical data

☐ Yes  
☒ No

**I. (1) Chemical Composition** (If actual percentages are not known, use ranges.) Total should be at least 100%.

All Constituents must be specifically identified and physical composition listed separately (e.g., Toluene, benzene)

UHC	Minimum	Maximum	Avg/Actual	CAS Number
Acetaldehyde	0.001 %	22 -	11 %	75-07-0
Acetic Acid	1 %	5 -	2.5 %	64-19-7
Methanol	20 %	40 -	30 %	67-56-1
Methyl Acetate	1 %	10 -	5 %	79-20-9
Vinyl Acetate	60 %	80 -	70 %	108-05-4
Water	0.001 %	20 -	13 %	7732-18-5
	%	-	%	
	%	-	%	
	%	-	%	
	%	-	%	

Does the material contain any of the following (Check all that apply)

If Yes, please list component(s) by CAS #

Pesticides (FIFRA)

EPA RMP Regulated

Chlorofluorocarbons

☐  
☒  
☐

75-07-0; 108-05-4

Is this waste stream subject to NSPS / NESHAP ?

☐ Yes☒ No

If yes, please list which standard

## KEY SAFETY INFORMATION

Primary Health Hazard: ☒ Inhalation ☒ Skin Contact ☐ IngestionDo you open dome to sample or load? ☒ Yes ☐ No

How do you minimize vapor exposure?

First Aid:

Engineering controls

Inhalation: Move to fresh air, call physician, Eyes: Flush w/ water. Call physician. Skin: Flush w/ water. Wash clothing.

Type of Gloves Used:

☐ Nitrile ☒ Neoprene ☐ Rubber ☐ PVC ☐ Butyl ☐ Other \_\_\_\_\_

Type of Body Protection:

☐ Tyvek coated suit ☒ Saranex Suit ☐ Acid resistant slicker suit ☐ Other: \_\_\_\_\_

List all:

Chronic Health Hazards See MSDSAcute Health Hazards See MSDS

## REGULATORY INFORMATION

Exempted from RCRA? ☐ Yes ☒ No

If exempted from RCRA, indicate basis:

- ☐ Spent sulfuric acid used to produce virgin sulfuric acid per 40 CFR 261.4(a)(7)  
☐ Used as an ingredient to make sulfuric acid per 40 CFR 261.2(e)(1)(i)  
(please provide analytical information or justification)

OSHA Chemicals: Please check all that apply and list the concentration ranges

	Range
Vinyl chloride monomer (VCM)	<input type="checkbox"/>
Benzene	<input type="checkbox"/>
Acrylonitrile	<input type="checkbox"/>
Formaldehyde	<input type="checkbox"/>
Others	<input checked="" type="checkbox"/> 0-22%
List _____	Acetaldehyde

## HANDLING INFORMATION

Is the material soluble in: ☒ Water ☒ Solvent

If solvent, what type? \_\_\_\_\_

Can material pass through a 20 mesh screen? ☒ Yes ☐ NoHow do you clear lines? ☐ N<sub>2</sub> ☐ Steam ☒ Solvent ☐ Water ☐ Other \_\_\_\_\_Pump Materials? ☒ Carbon Steel ☐ Stainless steel Grade: \_\_\_\_\_ ☐ Other \_\_\_\_\_

Pump Seal? Single, Double, Flush Plan, Face and O-Ring Material: \_\_\_\_\_

Pipeline Materials? ☒ Carbon Steel ☐ Stainless steel Grade: \_\_\_\_\_ ☐ Other \_\_\_\_\_Storage Container Mat'ls? ☒ Carbon Steel ☐ Stainless steel Grade: \_\_\_\_\_ ☐ Other \_\_\_\_\_

Temperature Limits? Max: \_\_\_\_\_ Min: \_\_\_\_\_ Re-Heat Issues: \_\_\_\_\_

List any compatibility problems: \_\_\_\_\_ Nitrates, Strong Oxizing Agents, Strong acids/bases.

## GENERATOR PROFILE CERTIFICATION

I hereby certify that I am an authorized agent of the Generator, and warrant on behalf of the Generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed.

For Baker, Auth. Agent for Generator 12/11/07 [Signature]  
Name & Title (Printed or Typed) Date Generator's Authorized Signature

Che 173.8 - allows me to  
113-703-5538 carry

Wade  
Troy - results on drums  
Send to the for books  
113-868-2378

Merik @ Solway  
7 387 3833  
8 622-4881

Brenda Leal	19468	8/1/08	3 <sup>00</sup> <del>PM</del> AM
VISITING/AREA	VISITOR CARD #	DATE	TIME IN

**VISITOR SAFETY RULES**

- Visitors are to be escorted at all times.
- Minimum PPE REQUIRED by everyone traveling beyond the yellow line into the operating and maintenance areas:
- If you have any questions ask your Rhodia host.
- Failure to comply with the safety rules is grounds for removal from the site.

19468

## Joy Baker

---

**From:** Melissa Noble [melissan@orpp.com]  
**Sent:** Thursday, July 16, 2009 4:08 PM  
**To:** Joy Baker  
**Cc:** Brent Hill  
**Subject:** Brent Hill's information  
**Attachments:** 20090716160420750.pdf

Joy,

Here is the information that you and Brent spoke about.

Thank you,  
Melissa

Melissa Noble  
Select Environmental Administrative Assistant "We're not just a collector; we are your environmental manager!"  
(A Division of O'Rourke Petroleum)  
223 McCarty  
Houston, Tx. 77029  
713-675-7376--Office  
713-255-1761--Fax  
[melissan@orpp.com](mailto:melissan@orpp.com)

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-----Original Message-----

**From:** SEPM@orpp.com [mailto:SEPM@orpp.com]  
**Sent:** Thursday, July 16, 2009 3:04 PM  
**To:** Melissa Noble; Brent Hill  
**Subject:**

This E-mail was sent from "SelectEnvironmental" (Aficio MP C2500).

Scan Date: 07.16.2009 16:04:20 (-0400)  
Queries to: [SEPM@orpp.com](mailto:SEPM@orpp.com)

25 ton high grade diesel  
90% diesel or more

2-3 trailers

Diego Garcia

# ASH GROVE CEMENT COMPANY CHEM-FUEL® SURVEY

<b>A CUSTOMER INFORMATION</b>					
Company Name: <b>Safety-Kleen</b>			Federal EPA No. <b>TXR000011106</b>		
BILLING ADDRESS <input type="checkbox"/> Manifest Address		FACILITY ADDRESS <input checked="" type="checkbox"/> Manifest Address			
Street: <b>1722 Cooper Creek</b>		Street: <b>Noltex 12220 Strang Rd.</b>			
City: <b>Denton</b> State: <b>Texas</b> Zip: <b>76208</b>		City: <b>La Porte</b> State: <b>Tx.</b> Zip: <b>77571</b>			
Nature of Business: <b>TSD</b>					
State ID Numbers: State ID <b>0001203H</b> State TX ID <b>30900</b> SIC Code(s)					
<b>B CHEM-FUEL® INFORMATION</b>		<b>D CHEM-FUEL® COMPOSITION</b> (vol %)		<b>Min</b>	<b>Max</b>
Chem-Fuel® Description: <b>waste organics</b>		<b>acetaldehyde</b>			<b>20%</b>
		<b>Acetic acid</b>			<b>10%</b>
Process Description: <b>PRODUCTION OF ETHYLENE VINYL ALCOHOL</b>		<b>methanol</b>			<b>20%</b>
Benzene NESHAP Notification Required <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<b>Methyl acetate</b>			<b>10%</b>
		<b>Vinyl acetate</b>			<b>20%</b>
<b>C PHYSICAL DESCRIPTION</b>					
Physical State <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Semi-solid <input type="checkbox"/> Solid					
Color <b>brown</b>		Water			
Layers <input checked="" type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three		Nonvolatile Material <b>0</b>			
Viscosity @ Temperature <b>0-10cP @ 67 °F</b>		Settled Solids <b>0</b>			
<b>E RESTRICTED, PROHIBITED OR SPECIAL SUBSTANCES</b>					
Check all of the following substances which may be in the Chem-Fuel® Identify if present Amount Units					
<input type="checkbox"/> Materials used exclusively as pesticides, herbicides, insecticides, etc.					
<input type="checkbox"/> OSHA carcinogens above exclusion levels					
<input type="checkbox"/> Toxic components with OSHA PEL or ACGIH TLV <2ppm or 8 mg/m³					
<input type="checkbox"/> Toxic metals					
<input type="checkbox"/> TSCA regulated substances (PCB, PBB)					
<input type="checkbox"/> Reactive components (sulfides, cyanides, shock sensitives, pyrophorics)					
<input type="checkbox"/> Water reactive components (isocyanates, acid chlorides, anhydrides, etc.)					
<input type="checkbox"/> Biological hazards (infectious agents, etc.)					
<input checked="" type="checkbox"/> None of the above <input type="checkbox"/> Special handling required					
<b>F DOT HAZARDOUS MATERIAL DESCRIPTION</b> (Ref. 49 CFR 172.101)		<b>G EPA HAZARDOUS WASTE DESCRIPTION</b> (Ref. 40 CFR 261)			
Proper Shipping Name: <b>RQ waste flammable liquids n.o.s.</b>		Waste No.(s) <input checked="" type="checkbox"/> D001 <input type="checkbox"/> F001 <input type="checkbox"/> F002 <input checked="" type="checkbox"/> F003 <input type="checkbox"/> F004 <input type="checkbox"/> F005 <input type="checkbox"/> See attachment <input type="checkbox"/>			
Hazard Class: <b>3</b> Number: <b>UN1993</b> <input type="checkbox"/> Not a DOT Hazardous Material		Hazard Code(s) <input checked="" type="checkbox"/> I <input type="checkbox"/> T <input type="checkbox"/> C <input type="checkbox"/> R <input type="checkbox"/> E <input type="checkbox"/> H <input type="checkbox"/> Not an EPA Hazardous Waste			
<b>H CUSTOMER CERTIFICATION</b>					
To the best of my knowledge, this is an accurate description and the sample submitted is representative of the Chem-Fuel®					
Name: <i>Randy Beeding</i>		Title: <i>EXECUTIVE VICE PRESIDENT</i>			
Signature: <i>[Signature]</i>		Date: <i>3/25/08</i>		Phone: <i>281-842-757</i>	
Comments:					

# ASH GROVE CEMENT COMPANY CHEM-FUEL® SURVEY

<b>A CUSTOMER INFORMATION</b>					
Company Name: <b>Safety-Kleen</b>			Federal EPA No. <b>TXR000011106</b>		
BILLING ADDRESS		<input type="checkbox"/> Manifest Address	FACILITY ADDRESS		<input checked="" type="checkbox"/> Manifest Address
Street: <b>1722 Cooper Creek</b>			Street: <b>Noltex 12220 Strang Rd.</b>		
City: <b>Denton</b> State: <b>Texas</b> Zip: <b>76208</b>			City: <b>La Porte</b> State: <b>Tx.</b> Zip: <b>77571</b>		
Nature of Business: <b>TSD</b>					
State ID Numbers: State ID <b>0001203H</b> State TX ID <b>30900</b> SIC Code(s)					
<b>B CHEM-FUEL® INFORMATION</b>		<b>D CHEM-FUEL® COMPOSITION</b> (vol %)		<b>Min</b>	<b>Max</b>
Chem-Fuel® Description: <b>waste organics</b>		<b>acetylaldehyde</b>			<b>20%</b>
		<b>Acetic acid</b>			<b>10%</b>
Process Description: <b>PRODUCTION OF ETHYLENE VINYL ALCOHOL</b>		<b>methanol</b>			<b>20%</b>
		<b>Methyl acetate</b>			<b>10%</b>
Benzene NESHAP Notification Required <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<b>Vinyl acetate</b>			<b>20%</b>
<b>C PHYSICAL DESCRIPTION</b>					
Physical State <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Semi-solid <input type="checkbox"/> Solid					
Color <b>brown</b>		<b>Water</b>			<b>20%</b>
Layers <input checked="" type="checkbox"/> One <input type="checkbox"/> Two <input type="checkbox"/> Three		<b>Nonvolatile Material 0</b>			
Viscosity @ Temperature <b>0-10cP @ 67 °F</b>		<b>Settled Solids 0</b>			
<b>E RESTRICTED, PROHIBITED OR SPECIAL SUBSTANCES</b>					
Check all of the following substances which may be in the Chem-Fuel®		Identify if present		Amount	Units
<input type="checkbox"/> Materials used exclusively as pesticides, herbicides, insecticides, etc.					
<input type="checkbox"/> OSHA carcinogens above exclusion levels					
<input type="checkbox"/> Toxic components with OSHA PEL or ACGIH TLV <2ppm or 8 mg/m³					
<input type="checkbox"/> Toxic metals					
<input type="checkbox"/> TSCA regulated substances (PCB, PBB)					
<input type="checkbox"/> Reactive components (sulfides, cyanides, shock sensitives, pyrophorics)					
<input type="checkbox"/> Water reactive components (isocyanates, acid chlorides, anhydrides, etc.)					
<input type="checkbox"/> Biological hazards (infectious agents, etc.)					
<input checked="" type="checkbox"/> None of the above <input type="checkbox"/> Special handling required					
<b>F DOT HAZARDOUS MATERIAL DESCRIPTION</b> (Ref. 49 CFR 172.101)		<b>G EPA HAZARDOUS WASTE DESCRIPTION</b> (Ref. 40 CFR 261)			
Proper Shipping Name: <b>RQ waste flammable liquids n.o.s.</b>		Waste No.(s) <input checked="" type="checkbox"/> D001 <input type="checkbox"/> F001 <input type="checkbox"/> F002			
		<input checked="" type="checkbox"/> F003 <input type="checkbox"/> F004 <input type="checkbox"/> F005			
		<input type="checkbox"/> See attachment <input type="checkbox"/>			
Hazard Class: <b>3</b> Number: <b>UN1993</b>		Hazard Code(s) <input checked="" type="checkbox"/> I <input type="checkbox"/> T <input type="checkbox"/> C <input type="checkbox"/> R <input type="checkbox"/> E <input type="checkbox"/> H			
<input type="checkbox"/> Not a DOT Hazardous Material		<input type="checkbox"/> Not an EPA Hazardous Waste			
<b>H CUSTOMER CERTIFICATION</b>					
To the best of my knowledge, this is an accurate description and the sample submitted is representative of the Chem-Fuel®					
Name: <b>Randy Boeding</b>		Title: <b>EXECUTIVE VICE PRESIDENT</b>			
Signature: <i>[Signature]</i>		Date: <b>3/25/08</b>		Phone: <b>281-842-5257</b>	
Comments:					

# GEOCYCLE

## GENERATOR CERTIFICATION FOR THE STABILIZATION OF MATERIALS WITH THE POTENTIAL FOR POLYMERIZATION

Geocycle requires monomer materials, and other substances that have the potential to polymerize upon subjection to certain conditions such as heat, light, air, water, or specific chemicals or types of chemicals, to be stabilized or inhibited to prevent polymerization. Polymerization causes a potentially dangerous increase in temperature and pressure, which can pose a significant threat of bodily injury and/or property damage. To minimize this risk and ensure the health and safety of our customers and our employees, Geocycle is requiring that waste streams containing unstable materials be properly stabilized or inhibited.

To be properly stabilized, shipments must contain the minimum amount of a stabilizer or inhibitor necessary to effectively and adequately stabilize the material and prevent polymerization when subjected to conditions that would normally cause polymerization of the uninhibited material. Some inhibitors are perishable compounds that will deplete over time due to the effects of exposure to heat, light, agitation, air and specific chemicals. This depletion can create an environment where polymerization can occur. For this reason, even if an inhibitor was added to the material previously to maintain a sufficient level of inhibitor to prevent polymerization, Geocycle is requiring its customers to ensure that the stabilizer is effective at time of delivery to a Holcim or Geocycle facility.

Additionally, materials shipped to the Geocycle facility may be mixed or blended with other wastes. These wastes contain a wide range of chemical substances with varying characteristics. Geocycle requires customers to alert the facility if a stream or shipment may polymerize, regardless of the presence of the proper inhibitor, if it is mixed with specific chemicals or compound classes. This will ensure that the best disposal option is utilized to maximize safety and benefit to customers.

The generator is responsible for ensuring that all bulk-shipments of unstable materials is inhibited with adequate amounts of the proper inhibitor or stabilizer, prior to shipment to an Geocycle or Holcim facility to ensure polymerization will not occur. A signed copy of this certification must be present at the receiving facility, or the waste will be rejected. Additionally, Geocycle may require this certification for each individual shipment of waste containing unstable material.

Generator: Noltex Customer: Noltex

Waste Description: WASTE ORGANICS

Survey No.: \_\_\_\_\_ or Manifest No.: \_\_\_\_\_

### Generator Certification:

On behalf of the Generator, I hereby represent, warrant, and certify that: I am a duly authorized representative of the

Generator, and the Vinyl Acetate containing waste with the characteristics described above and all  
Name of unstable component in waste stream

other waste materials containing this substance are delivered to Geocycle and/or Holcim are properly stabilized with

Para Benzquinone to prevent polymerization of Vinyl Acetate. Generator agrees to  
Name(s) of stabilizer(s) or inhibitor(s) Name of chemical with polymerization potential

indemnify and hold Holcim (US), Inc. and its subsidiaries harmless for any claim, liabilities, damages, and costs including, but not limited to, tank clean-out fees, arising out of or in any way related to breach of the above warranty.

Name Randon Boeding Title Executive Vice President

Signature [Signature] Date 2/25/08 Phone (201) 842-5057

EAR.09.003

02/17/07 Revision #1

EPAHQ082001841

IDS profiles



**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021  
Phone: (713) 676-1460 Fax: (713) 676-1676  
<http://www.cesenvironmental.com>  
TCEQ Industrial Solid Waste Permit No: 30948  
U.S. EPA ID No: TXD008950461 ISWR No: 30900

**SECTION 1: Generator Information**

Company : Industrial Degassing Services, LLC - IDS  
Address : 2406 Market Street 2406 Market Street  
City, State, Zip : Baytown TX 77520  
Contact : Bobby Lee Title :  
Phone No : (281) 837-7431 Fax : (281) 837-7434  
24 / HR Phone :  
U.S EPA I.D No :  
State I.D : SIC Code na

**SECTION 2: Billing Information**

Company : Industrial Degassing Services, LLC - IDS  
Address : 2406 Market Street 2406 Market Street  
City, State, Zip : Baytown TX 77520  
Contact : Bobby Lee Title :  
Phone No : (281) 837-7431 Fax : (281) 837-7434

**SECTION 3: General Description of the Waste**

Name of Waste : Diesel and water

**Detailed Description of the Process Generating Waste:**

Physical State : ☒ Liquid ☐ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color : dark Odor : slight

Specific Gravity (Water=1) : 1 Density : 8.34 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☐ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☐ Single-Phas ☒ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)

Container Size :

Number Of Units :

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007  
☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : Recyclable hydrocarbon and water mixture

Class : na UN/NA : na PG : na RQ : na

Flash Point >200	pH neutral	Reactive Sulfides 0 mg/l	Reactive Cyanides 0 mg/l	Solids <2 %
Oil and Grease >1500 mg/l	TOC na mg/l	Zinc 0 mg/l	Copper 0 mg/l	Nickel 0 mg/l

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE		Concentration	Units
The material / product consists of the following materials		Ranges are acceptable	or %
water		90-95	%
diesel		5-10	%
sediment		0-2	%

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.  
standard PPE

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any):  
oxidizers

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ☒  
TCLP Volatiles : ☒  
TCLP Semi-Volatiles : ☒  
Reactivity : ☒

Corrosivity : X  
Ignitability : X

**SECTION 9: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge ? ☒ YES ☐ NO

If 'YES', complete this section

**PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

#### **SECTION 10: Additional Instruction**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

#### **SECTION 11: Generator's Certification**

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : \_\_\_\_\_ Date : \_\_\_\_\_

Printed Name / Title : \_\_\_\_\_

**CES USE ONLY (DO NOT WRITE IN THIS SPACE)**

**Process Facility Information :**

**Compliance Officer :**

**Date :** \_\_\_\_\_ **Status :**      Approved      Rejected

**Approval Number :** \_\_\_\_\_

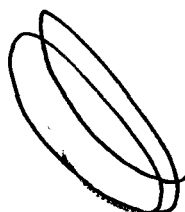
GATX Hearne Drum Profile List			
Profile Number	Name of Waste	CES Cost	GATX Price
CES 1058	Wastewater with Methanol		\$75.00/drum
CES 1057	Flammable Products		
	Nonene		
	Petroleum Distillates		
	Toluene		
	Xylene		
	Octane		
CES 1059	NH Absorbent Waste		
CES 1363	NH Waste Solids Asphalt Pariffin Wax Stearic Acid		
CES 2178	Recyclable Fuels Ethanol Butanol Methanol Propanol Other hydrocarbons Water		\$75.00/drum
CES 2218	Recyclable Alcohols Ethanol 0-100% Methanol 0-100%		\$75.00/drum
CES 2467	Ferric chloride product		\$100.00/drum
CES 2550	Aluminum Hydroxychloride		\$145.00/drum
CES 2596	Ferric Sulfate		
CES 2563	Sodium Hydrosulfide		\$250.00/drum
CES 2633	N-Methyl-2-pyrrolidone		\$75.00/drum
CES 2605	Sodium Bromide		\$100.00/drum
CES 2779	Ammonium Chloride Solution		\$65.00/drum
TECO 090056386	Corrosive Liquids (low pH) Hydrochloric Acid Phosphoric Acid	\$100.00/drum	
PCI 236659	Flammable Liquids Methanol Butyl Acrylate Methyl Acrylate Mineral Spirits Alkyl Benzene Methyl-Tert-Butyl Ether Jet Fuel Naphthalene Dicyclopentadiene Vinyl Acetate Styrene Methyl Ethyl Ketone Toluene	L \$45.00/drum S \$85.00/drum So	\$75.00/drum \$180.00/drum

	Tetrahydrofuran Xylene		
PCI 288072	MDI	\$0.99/lb	\$1.25/lb
PCI 235548	Waste Phenol Solutions	LF \$45.00/drum S \$89.00/drum	
PCI 236658	Paint Related Material		
PCI 257568	Sodium Hydroxide Solution	\$100.00/drum	\$175.00/drum
PCI 288002	Flammable Solids Creosote	\$140.00/drum	\$190.00/drum
PCI 287993	Oxidizing Solids (Chlorine)		
PCI 288007	Flammable Solids Ammonium Nitrate		
PCI 257613	Hazardous Waste Solid Dichlorobenzene		
PCI 224516	Phthalic Anhydride		
PCI 236670	Waste Phenol Solids		
PCI 262083	Hydrochloric Acid		
PCI 257614	Waste toxic liquids DMA		
PCI 257586	Waste Corrosive Liquid Acrylic Acid		
PCI 262028	Waste Trichlorobenze		
PCI 232314	Waste corrosive liquid, toxic Sodium Hydroxide, arsnic		
PCI 262029	Waste Toluenediamine		
PCI 224515	Waste Acedic Acid		
PCI 232312	Hazardous Waste Liquid Mercaptoethanol	\$1.60/lb	\$2.00/lb
PCI 288093	Waste Cresols Cresyllic Acid	\$45.00/drum	\$75.00/drum
TECO 090062039	Hydrofluorosilicic acid	\$200.00/drum	\$295.00/drum
TECO 090062935	Sodium Aluminate Solution	\$125.00/drum	
PCI 318485	Sulfate Turpentine Must be overpacked	\$ 3.70/lb Min \$1485/drum	\$4.20/lb \$1645.00/drum
PCI 335567	Aminobenzene	\$45.00/drum	\$75.00/drum
TECO 090064088	Sodium Bisulfite	\$100.00/drum	
TECO 090064862	Poly Aluminum Hydroxychloride	\$125.00/drum	\$225.00/drum

# SCHNEIDER DRUMS

257557	<p>Tetrahydrofuran  BPR 81232  Polylite  HCF 193  839.5  Sigma Cure 7211 UCB Pt 1  EC2425A  Petrotec  Nalco Corrosion Inhibitor  Vinyl Acetate (Raw Material)  Xylene</p>	
288050	Sodium Hydroxide	
288102	Styrene Monomer	
288065	Caustic Sludge	

2144 Nonhazardous Tank Heads



## ENTERPRISE MORGANS POINT DRUM PROFILES

Profile Number	Name of Material	Waste code
CES 2101	Fire Fighting Foam	11041011
CES 1201	Empty Drums/Buckets	Recycle
CES 2094	Unused methanol	Product
CES 2093	Ethanol Product	Product
CES 1197	Light End Hydrocarbon and Water Mixture Natural Gas Kerosene MTBE Diesel Rust Dirt Sand Trash Water	Recycle
CES 1198	Oily Water Mixture Motor Oil Compressor Oil Hydraulic Oil Diesel Water Dirt Sand Silt Trash	Recycle
CES 1196	Non hazardous Sludge Class 1 AluminoSilicate Support Balls Sandblast Media Rust Dirt Sand Trash with Oil/Grease Water	00704091
CES 2382	Non hazardous Sludge (Tank 209 sludge)	00116072
CES 2315	Dirty Water	11051142
CES 2314	Ethylene Glycol	Recycle

**GATX PLANTERSVILLE DRUM PROFILES**

<b>Profile Number</b>	<b>Name of Waste</b>	<b>Comments</b>
PCI 257572	Universal Paint Related Material	
CES 1768	Products Hydrochloric Acid Ferric Chloride Bleach (Sodium Hypochlorite Solution) Phosphoric Acid	Liquids  All Ferric comes to CES
TECO 090048690	Acidic Wastes Hydrochloric Acid Phosphoric Acid Water	Sludges/Solids - Open top drums
CES 1107	Sandblast Media	
CES 2142	Calcium Ammonium Nitrate	
CES 2834	Sodium Hydrosulfide Solution	

## AMERIFORGE WASTE PROFILE NUMBERS

Profile Number	Name of Waste
1004	Oily Sludge
1003	Oily Water
1254	Empty Drums and Totes
1281	Oily Rags
	Absorbent
	Non haz drums
2835	Oily Pallets
1757	Universal Waste Batteries
1758	Universal Waste Flourescent Lightbulbs
2136	Universal Waste Non PCB Capacitors
288028	Universal Paint Waste

# SLAY TRANSPORTATION PROFILE INFORMATION

Profile Number	Description of Waste	TX Waste Code	Expiration Date
11 1019	Non Haz Solids	60914091	7/1/2006
1020	Non Haz Liquid/Sludge	00035191	7/1/2006
11 1670	Non Haz Sump Sludge	00035191	7/17/2006
11 PCI-228939	MDI		
PCI-228936	TDI		
11 PCI-228932	HMDI (Desmodure)		
PCI-288091	Maleic Anhydride	0012409H	
PCI-288095	Phenol	0022208H	
PCI-288099	Flammable Liquid		

2198 Empty Drums

# AMERIFORGE JOBS & PROFILE NUMBERS

Profile Number	Name of Job	TX Waste Code	Expiration Date
1004	NH Drums (pit sludge)	00076031	6/23/2006
1003	Oily Water	Recycle	6/24/2006
1254	Recyclable Empty Drums	Recycle	12/8/2006
1254	Empty Totes/batteries	Recycle	12/8/2006
<del>1221</del> 1281	Recyclable Oily Rags & Absorbents	Recycle	12/8/2006
1281	Non Haz Drums	00076031	1/3/2007
PCI-259109	Haz Drums		
PCI-288028???	Universal Paint Waste	None	approval?????
NP-07130506662BH	Spent Phosphating Water	00111191	

3304 Mercury Switches

## HEEL DETAIL BY PRODUCT REPORT

(Flammable/Corrosive)

262070

Trimac  
Dool, Dool  
from Bay Park R.

Page 1

### Product Name:

CYCLOHEXYLAMINE 10-159  
DIBUTYLAMINE 5-109  
DIETHANOLAMINE x 10-159  
DIETHYLENETRIAMINE 5-109  
DIETHYLETHANOLAMINE 3-59  
DIETHYLHYDROXYLAMINE 3-59  
DIMETHYLAMINE 5-109  
ETHANOLAMINE 5-109  
ETHYLAMINE 3-59  
METHYLAMINE 3-59  
TRIETHANOLAMINE 8-109  
TRIETHYLENE TETRAMINE 1-39  
TRIPROPYLAMINE 5-109

## HEEL DETAIL BY PRODUCT REPORT

(Flammable)

262065

Product Name:

PENTANOL 1-390  
ETHYLHYXANOL 1-390  
ETHYLHEXYL ACRYLATE 1-290  
METHOXYETHANOL 1-290  
ACETONE 5-890  
ALPHA-METHYL STYRENE 1-290  
BUTANOL 1-490  
CUMENE .5-190  
CYCLOHEXANONE 1-290  
CYLCOOCTADIENE 1-290  
DICYCLOPENTADIENE 3-590  
DIETHYLENE GLYCOL MONOBUTYL EHTER 3-590  
DIPHENYLO OXIDE-DIPHENYL MIXTURE .5-190  
DIVINYL BENZENE .5-190  
EPOXY RESIN 15-2090  
ETHANOL 2-590  
ETHYLENE GLYCOL MONOBUTYL ETHER 2-590  
ETHYLENE GLYCOL MONOETHYL ETHER ACETAT 2-590  
ETHYLENE GLYCOL MONOMETHYL ETHER ACETAT 2-590  
GASOLINE 1-290  
GLYCOL ETHER 1-290  
HAZARDOUS WASTE WATER, FLAMMABLE 1-390  
HEAVY AROMATIC NAPHTHA 5-1090  
HEXANE 3-590  
ISODECANOL 3-590  
ISOPHORONE .01-.0590  
ISOPROPANOL 1-590  
METHANOL 1-590  
METHYL ETHYL KETONE 5-890  
METHYL ISOBUTYL KETONE 5-890  
METHYL PROPYL KETONE 3-590  
N-BUTYL ACRYLATE .5-290  
NAPHTHA 1-290  
NAPHTHALENE 1-390  
PETROLEUM DISTILLATES 5-1090  
PETROLEUM PRODUCTS 5-1090  
PINE OIL 2-590  
POLYACRYLAMIDE 1-290  
PROPANOL 3-590  
PROPYLENE GLYCOL MONOMETHYL ETHER 3-590

Trimas  
D001 from  
Bay Park Rd.

Page 1

# HEEL DETAIL BY PRODUCT REPORT

(Flammable)

262045

Trima  
Dool from  
Bay Park Rd.

page 2

STYRENE 3-5%  
TETRAHYDRONAPHTHALENE .5-1%  
TOLUENE 5-10%  
TRIETHYLENE GLYCOL MONOETHYL ETHER 5-10%  
VINYL ACETATE 2-3%  
VINYL RESIN SOLUTION 5-10%  
XYLENES 5-10%

<b>SLAY TRANSPORTATION PROFILE INFORMATION</b>
--

Profile Number	Description of Waste	TX Waste Code	Expiration Date
1019	Non Haz Solids	60914091	7/1/2006
1020	Non Haz Liquid/Sludge	00035191	7/1/2006
1670	Non Haz Sump Sludge	00035191	7/17/2006
2198	Empty drums		
PCI-228939	MDI		
PCI-228936	TDI		
PCI-228932	HMDI (Desmadure)		
PCI-288091	Maleic Anhydride	0012409H	
PCI-288095	Phenol	0022208H	
PCI-288099	Flammable Liquid		

Audit Package

# **CES Environmental Services, Inc.**

## **Audit Package**

4904 Griggs Road, Houston, TX 77021  
Office: 713-676-1460, Fax: 713-676-1676  
[www.cesenvironmental .com](http://www.cesenvironmental.com)

# **CES ENVIRONMENTAL SERVICES, INC.**

## **Company Profile and Objectives**

CES Environmental Services, Inc. (CES), provides economical waste transportation and disposal services as well as recycling of off-specification products and materials containing residual value. CES additionally provides remediation, decontamination, and industrial cleaning services.

The primary goal of CES is to provide customers with compliant, safe and cost-effective solutions to their hazardous and non-hazardous waste disposal and recycling needs. CES provides innovative recycling and disposal alternatives using a pervasive approach and its extensive knowledge of these markets.

A partial list of services offered by CES are listed below:

- Waste Packaging, Transportation, and Disposal Services  
(Hazardous and Non-Hazardous Materials)
- Waste Sampling, Analysis and Characterization
- Recycling Alternatives
- Tank, Pit and Sump Cleaning Services
- Remediation Services
- Pressure Washing Services
- Chemical Cleaning Services
- Small Scale Emergency Response Services
- Small Scale Demolition Services
- Fuel Filtration
- Regulatory Assistance

# **CES ENVIRONMENTAL SERVICES, INC.**

## **The Competitive Edge**

### **Features**

Customer Focused

Innovative/Compliant Recycling Alternatives

Knowledge of Waste Market and TSDFs

Turnkey Services

Operational Flexibility

### **Customer Benefits**

Comprehensive, practical solutions to Customer's needs

Waste minimization and lower cost to customers.

Flexible disposal alternatives and lower costs to the Customer

Allows customer to focus on core business activities

Accommodation of Customer's needs (small or large)

# CES Environmental Services, Inc.

## **Waste Profile Data Information for Incoming Wastes**



**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 39048

U.S. EPA ID No: TXD008950461

ISWR No: 30900

**SECTION 1: Generator Information**

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Contact: \_\_\_\_\_

Title: \_\_\_\_\_

Phone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

24/hr Phone: \_\_\_\_\_

U.S. EPA I.D. No: \_\_\_\_\_

State I.D. \_\_\_\_\_

SIC Code: \_\_\_\_\_

**SECTION 2: Billing Information** – ☐ Same as Above

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Contact: \_\_\_\_\_

Title: \_\_\_\_\_

Phone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

**SECTION 3: General Description of the Waste**

Name of Waste: \_\_\_\_\_

Detailed Description of Process Generating Waste: \_\_\_\_\_

Physical State:

☐ Liquid

☐ Sludge

☐ Powder

☐ Solid

☐ Filter Cake

☐ Combination

Color: \_\_\_\_\_

Odor: \_\_\_\_\_

Specific Gravity (water=1): \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal

Layers:

☐ Single-phase

☐ Multi-phase

Container Type:

☐ Drum

☐ Tote

☐ Truck

☐ Other (explain)

Container Size: \_\_\_\_\_

Frequency:

☐ Weekly

☐ Monthly

☐ Quarterly

☐ Yearly

Number of Units (containers): \_\_\_\_\_

Other: \_\_\_\_\_

Texas State Waste Code No: \_\_\_\_\_

Proper U.S. DOT Shipping Name: \_\_\_\_\_

Class: \_\_\_\_\_

UN/NA: \_\_\_\_\_

PG: \_\_\_\_\_

RQ: \_\_\_\_\_

Flash Point	pH	Reactive Sulfides mg/l	Reactive Cyanides mg/l	Solids %
Oil & Grease mg/l	TOC mg/l	Zinc mg/l	Copper mg/l	Nickel mg/l

**SECTION 4: Physical and Chemical Data**

<b>COMPONENTS TABLE</b>	<b>Concentration</b>	<b>Units</b>
<b>The waste consists of the following materials</b>	<b>Ranges are acceptable</b>	<b>or %</b>

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

\_\_\_\_\_

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

\_\_\_\_\_

**SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

\_\_\_\_\_

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: \_\_\_\_\_  
TCLP Volatiles: \_\_\_\_\_  
TCLP Semi-Volatiles: \_\_\_\_\_  
Reactivity: \_\_\_\_\_  
Corrosivity: \_\_\_\_\_  
Ignitability: \_\_\_\_\_

**SECTION 9: Generator's Certification**

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_ Additional Information: \_\_\_\_\_

Date: \_\_\_\_\_ Approved \_\_\_\_\_ Rejected \_\_\_\_\_

Approval Number: \_\_\_\_\_

**SECTION 10: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge? ☐ YES ☐ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L  
Chromium: 8.9 mg/L  
Copper: 4.9 mg/L  
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

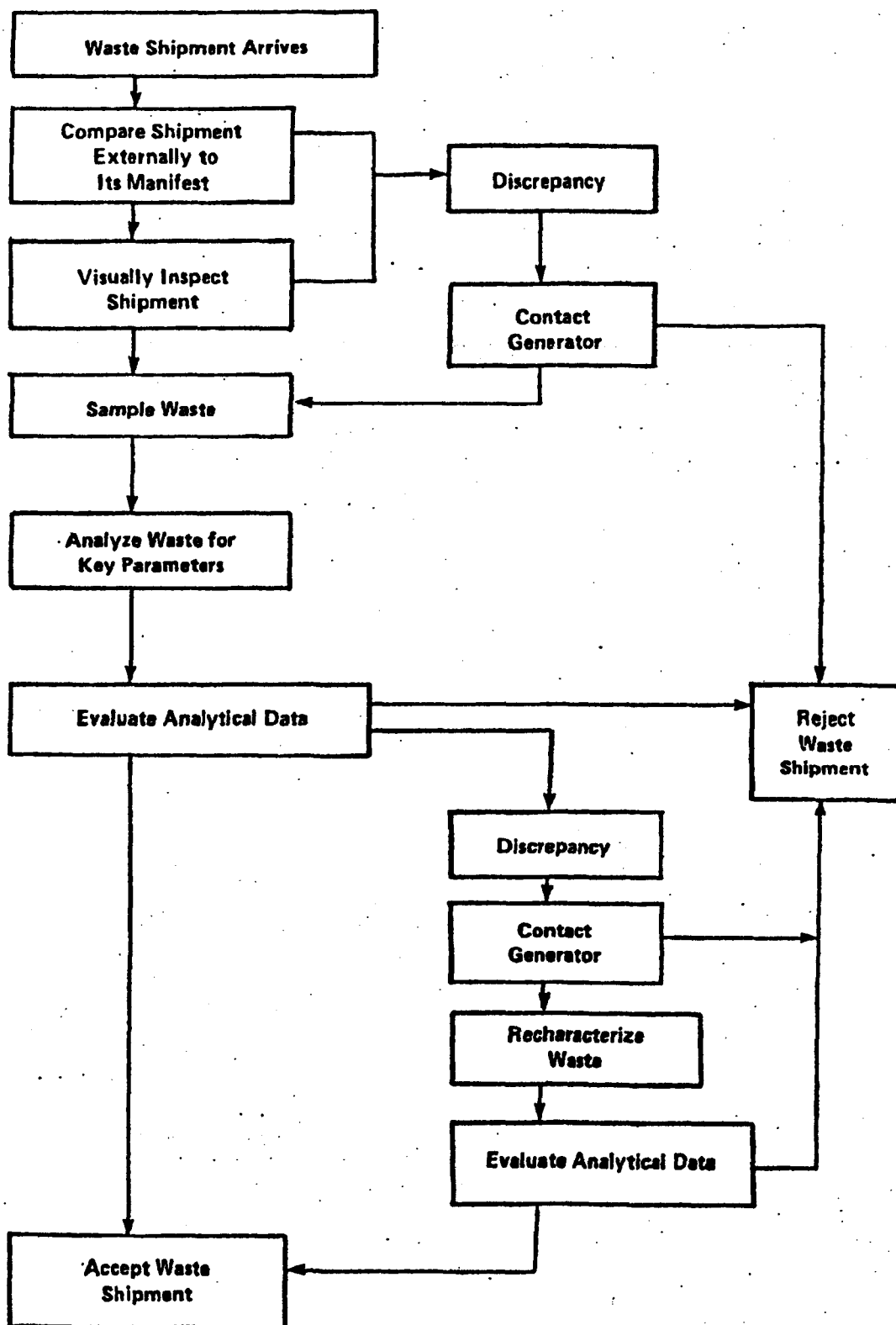
- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# **WASTE SHIPMENT SCREENING PROCEDURES**

## Shipment Screening Procedures



**ATTACHMENT**  
**WASTE ANALYSIS PLAN**

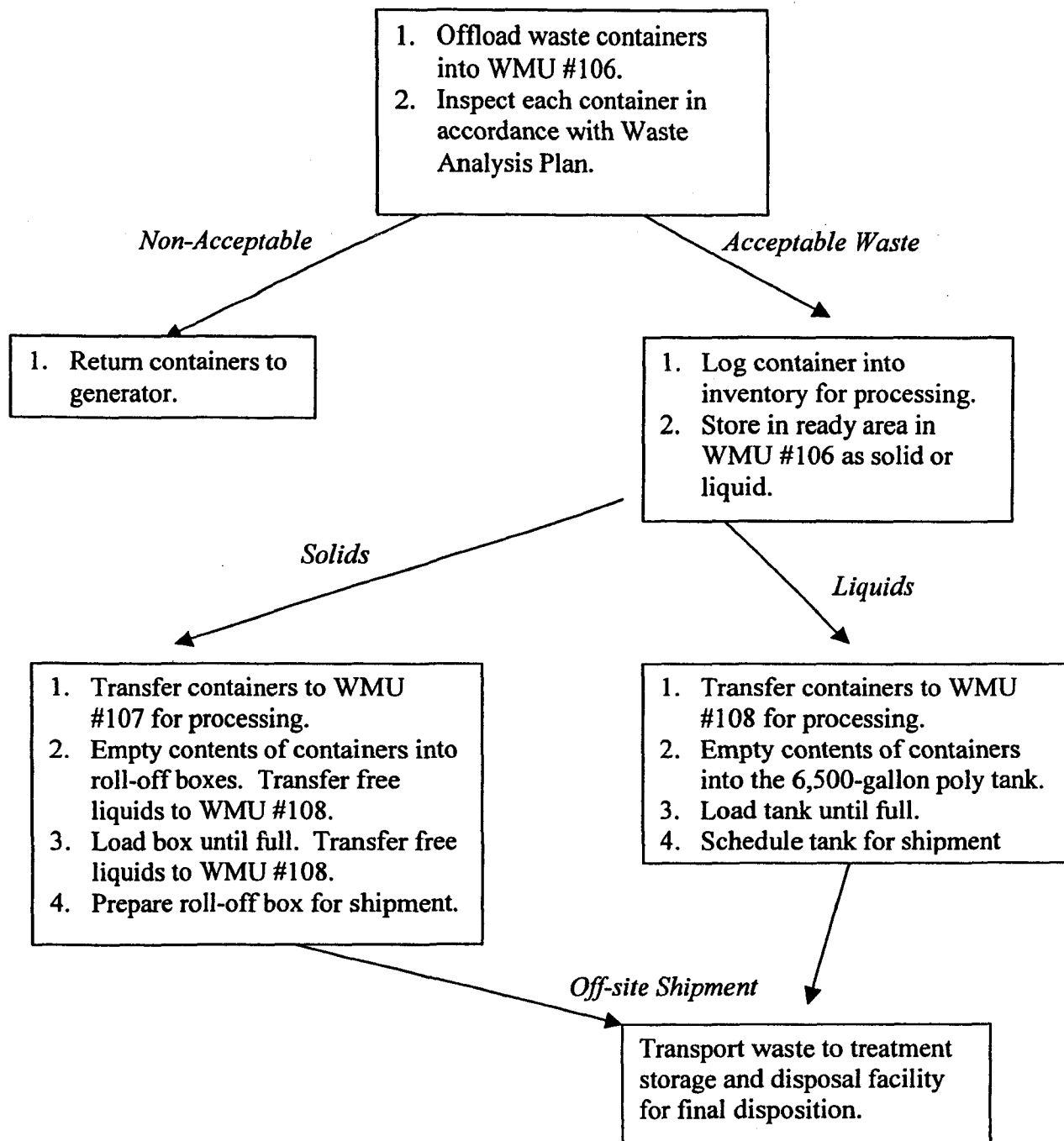
### **Waste Analysis Plan**

For each waste stream shipped to the CES Environmental Services (CES) facility, there will be a CES profile for that waste. The profile will be filled out by the generator, and approved by CES per TCEQ guidelines and site permit parameters. CES will transfer the profile information to a permit for the TSDF. The generator will be CES, and the profile will reflect all waste material that had was bulked into that container. The disposal facility will review the CES profile. Any additional analysis will be performed by CES or the original generator. The approval for the waste stream will be based on TCEQ guidelines and other various site permit parameters.

A CES quality assurance/quality control technician will review all profiles and wastes before receiving the material. The QA/QC technician will test new materials in a bench lab setting before adding to the containers. Waste that is not compatible with other material will be segregated in the container it was received. There will be a separate section in waste management unit number 6 to segregate incompatible waste.

For all liquid wastes, a bench laboratory test will be performed to ensure compatibility with waste that has previously been received at the facility. A qualified QA/QC technician will review the profile filled out by the generator, and compare it to the other material previously accepted and stored on-site. This material will also be tested on a bench lab test to confirm compatibility. CES and the final TSDF will review the profile and determine if any further analytical is required by the TCEQ guidelines or the TSDF site permit parameters.

### Process Flow Chart - Schematic



**CES ENVIRONMENTAL SERVICES, INC.**

**WASTE ANALYSIS PLAN  
FOR  
INDUSTRIAL SOLID WASTE PERMIT 39048**

**MARCH 2005**

**CES ENVIRONMENTAL SERVICES, INC.**  
**WASTE ANALYSIS PLAN**  
**FOR**  
**INDUSTRIAL SOLID WASTE PERMIT NO. 39048**

**A. Waste Management Information for Facility**  
**(Table III.A. of Nonhazardous Permit Application)**

<u>Waste to be Stored or Processed</u>	<u>Source</u>	<u>Volume of Waste to be Stored or Processed</u>
(1) Inorganic Liquids	Industrial Class I and II Nonhazardous Generators	Volume equivalent of up to 500, 55 gallon drums
(2) Organic Liquids	Industrial Class I and II Nonhazardous Generators	Volume equivalent of up to 500, 55 gallon drums
(3) Inorganic Solids	Industrial Class I and II Nonhazardous Generators	Volume equivalent of up to 500, 55 gallon drums
(4) Organic Solids	Industrial Class I and II Nonhazardous Generators	Volume equivalent of up to 500, 55 gallon drums
(5) Inorganic Sludges	Industrial Class I and II Nonhazardous Generators	Volume equivalent of up to 500, 55 gallon drums
(6) Organic Sludges	Industrial Class I and II Nonhazardous Generators	Volume equivalent of up to 500, 55 gallon drums

**B. Waste Managed in Permitted Units**  
**(Table III.B.)**

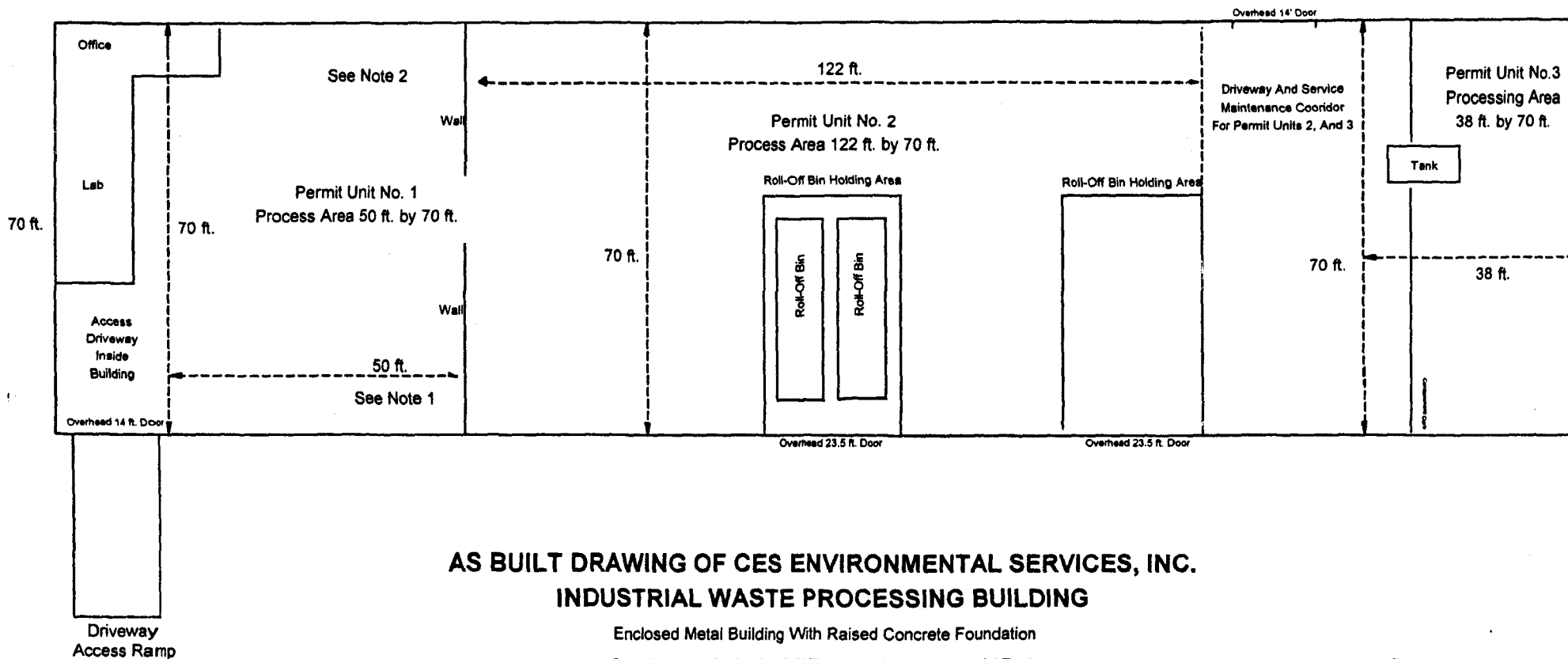
**TABLE III.B. - WASTES MANAGED IN PERMITTED UNITS**

<b><u>No.</u></b>	<b><u>Waste</u></b>	<b><u>Physical Form</u> <b><u>(e.g., solid, liquid, sludge)</u></b></b>	<b><u>TCEQ Waste Form</u> <u>Codes and</u> <u>Classification Codes</u></b>
1.	Inorganic Waste	Liquids	Class 1 and 2
2.	Organic Waste	Liquid	Class 1 and 2
3.	Waste Inorganics	Solids	Class 1 and 2
4.	Waste Organics	Solids	Class 1 and 2
5.	Inorganic Waste	Sludges	Class 1 and 2
6.	Organic Waste	Sludges	Class 1 and 2

## Sampling and Analytical Methods

<u>Waste No.</u>	<u>Sampling Location</u>	<u>Sampling Method</u>	<u>Frequency</u>	<u>Parameter</u>	<u>Test Method</u>
1	Solid Waste Warehouse Area	COLIWASA	Every 10 Drums Every Tote Every Truck	pH General Composition Compatibility	SW-846 Method 9040/or pH Indicator Strips Process Knowledge EPA-600/2-80-076/or Lab Testing
2	Solid Waste Warehouse Area	COLIWASA	Every 10 Drums Every Tote Every Truck	General Composition Visual Appearance Compatibility	Process Knowledge Lab Testing EPA-600/2-80-076/or Lab Testing
3	Solid Waste Warehouse Area	ASTM STD D420-69	Every 10 Drums Every Container Every Bin	General Composition Compatibility Visual Appearance	Process Knowledge EPA-600/2-80-076/or Lab Testing --
4	Solid Waste Warehouse Area	ASTM STD D1425-65	Every 10 Drums Every Container Every Bin	General Composition Compatibility Visual Appearance	Process Knowledge EPA-600/2-80-076/or Lab Testing --
5	Solid Waste Warehouse Area	ASTM STD D140-70	Every 10 Drums Every Tote/Container Every Truck/Bin	pH General Composition Compatibility	SW-846 Method 9040 Process Knowledge EPA-600/2-80-076/or Lab Testing
6	Solid Waste Warehouse Area	ASTM STD D140-70	Every 10 Drums Every Tote/Container Every Truck/Bin	pH General Composition Compatibility	SW-846 Method 9040 Process Knowledge EPA-600/2-80-076/or Lab Testing

# CES INDUSTRIAL WASTE PROCESSING BUILDING



## AS BUILT DRAWING OF CES ENVIRONMENTAL SERVICES, INC. INDUSTRIAL WASTE PROCESSING BUILDING

Enclosed Metal Building With Raised Concrete Foundation  
SHOWING PERMIT UNITS 1, 2, AND 3

Drawing Number IV.A.  
1 inch = 17 ft.  
Plan View  
Date 04/18/05  
Drawn by C. M.



*Clark G. Hickman*  
4/18/05

### NOTE:

1. Ignitable (flammable), or reactive wastes storage area which is 50 feet from the facility property line.
2. Incompatible waste separated by raised metal containment barrier.

# **General Information**

CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021  
ATTN: SEAN EASTON



**ACKNOWLEDGMENT OF RCRA SUBTITLE C  
SITE IDENTIFICATION FORM**

This is to acknowledge that you have filed a RCRA Subtitle C Site Identification Form for the facility located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that facility appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage, and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and on other hazardous waste management reports and documents required under Subtitle C of RCRA. A Subsequent RCRA Subtitle C Site Identification Form is required should any information on the original document change.

EPA I.D.Number: **TXD008950461**

Facility Name and Address: **CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021**

October 23, 2003



EPAHO082001879



INDUSTRIAL SOLID WASTE PERMIT NO. 39048  
ISWR NO. 30900

Texas Commission on  
Environmental Quality  
Austin, Texas

PERMIT FOR INDUSTRIAL SOLID  
WASTE MANAGEMENT SITE issued  
under provisions of TEXAS HEALTH  
AND SAFETY CODE ANN.  
Chapter 361 (Vernon)

Name of Permittee:

CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, Texas 77021

Site Owner:

CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, Texas 77021

Classification of Site:

Industrial Nonhazardous Solid Waste Processing and Storage, Off-  
site, Commercial

The permittee is authorized to manage wastes in accordance with the limitations, requirements, and other conditions set forth herein. This permit is granted subject to the rules of the Commission and other Orders of the Commission, and laws of the State of Texas. This permit does not exempt the permittee from compliance with the Texas Clean Air Act. This permit will be valid until canceled, amended, modified or revoked by the Commission, except that the authorization to manage wastes shall expire midnight, 10 years after the date of permit approval.

ISSUED:

**JUL 27 2004**

TCEQ-0080 (Rev. 10-09-03)

  
For The Commission

EPAHO082001880



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

August 28, 2003

CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021  
ATTN: SEAN EASTON

This is to acknowledge that, in compliance with Section 3010 of the Resource Conservation and Recovery Act (RCRA), you have filed a Notification of Regulated Waste Activity for:

**CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021**

Your EPA Identification Number for this installation is:  
**TXD008950461**

The EPA Identification Number must be included in all shipping manifests for transporting hazardous wastes; on all Biennial Reports that generators of hazardous wastes, and owners and operators of hazardous waste treatment, storage, and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste reports and documents required under Subtitle C of RCRA. A Subsequent Notification of Regulated Waste Activity is required should any information on the original document change.

A handwritten signature in black ink, appearing to read "Paul Sieminski".

Paul Sieminski, Chief  
RCRA State/Tribal Oversight Section

**TEXAS NATURAL RESOURCE CONSERVATION  
COMMISSION  
ACKNOWLEDGMENT OF RECYCLING NOTIFICATION**

Generator Name: CES ENVIRONMENTAL SERVICES, INC.  
Date of Notification: 07/01/2002  
Solid Waste Registration Number: 30900  
Texas Waste Code: RECEIVER

The TNRCC acknowledges the receipt of your notification pursuant to the requirements of Title 30 TAC § 335.6. Please note that this is not an approval of your recycling activities. The requirements for industrial and/or hazardous wastes which are recycled are found at Title 30 TAC § 335.24. As a reminder, your facility is responsible for insuring that:

- 1) The subject wastes are managed in accordance with Title 30 TAC § 335.4 (general prohibitions) and Chapter 26.121 of the Texas Water Code; and
- 2) Should any changes occur or additional information become available concerning: the composition of the waste, the process by which the waste is generated or managed, or any other information referenced in 30 TAC § 335.6, this information is to be provided immediately to the TNRCC.

Your notification has been forwarded to the Industrial and Hazardous Waste Section of Record Services.

Signed: M. Swift Green Title: Team Leader  
Date: 8/20/02 File #: 1730 JKB  
Technical Analysis Team, I&HW Permits Section, MC 130, Waste Permits Division.  
Phone (512) 239 6412, Fax (512) 239 6410.

SEAN EASTON  
CES ENVIRONMENTAL SERVICES, INC.  
4904 GRIGGS ROAD  
HOUSTON, TX 77021

Robert J. Huston, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Kathleen Hartnett White, *Commissioner*  
Margaret Hoffman, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

March 24, 2003

Mr. Sean Easton, Vice President  
CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, TX 77021

Re: Removal of Hazardous Heels From Tanker Trailer/Waste Containers  
Solid Waste Registration Number **30900**  
Technical Analysis File Number **2914**

Dear Mr. Easton:

The Technical Analysis Team of the Texas Commission on Environmental Quality (TCEQ) has received your letter of March 7, 2003 regarding the requirements that must be met in order for CES Environmental Services, Inc. (hereafter referred to as CES) to properly remove hazardous heels from tanker trailers or waste containers that are *not* "RCRA empty". On behalf of the TCEQ, I wish to thank you for the opportunity to respond to your letter.

In your letter, you state that, based on the TCEQ interoffice memorandum dated August 5, 1998 entitled, "Management of Residues from Containers", it is CES' understanding that it may remove the hazardous waste heels from tanker trailers or containers that are not "RCRA empty" provided that the following conditions are met:

1. CES is registered with the TCEQ as a transporter of hazardous waste;
2. CES is registered with the TCEQ as a transfer facility and is in compliance with 30 Texas Administrative Code (TAC) Section 335.94 and 30 TAC Section 335.65;
3. Before any heel removal can be started, CES must receive the trailer or other waste container accompanied by a new manifest that is filled out in accordance with the instructions listed in Part C of the aforementioned memorandum;
4. CES must use only dry methods of removal (e.g., scrapping, digging, gravity draining etc.) that do *not* alter the physical or chemical properties of the waste; and
5. Once the hazardous heels have been removed, CES must properly label, store and transport the resulting waste to a permitted TSD facility for final disposal as well as make the referenced changes to the manifest.

Robert J. Huston, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Kathleen Hartnett White, *Commissioner*  
Margaret Hoffman, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 19, 2003

DAN BOWMAN  
CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021

Re: Registration for Used Oil Activities at **CES ENVIRONMENTAL SERVICES**  
**4904 GRIGGS RD**  
**HOUSTON, TX 77021**

**TCEQ Registration No. A85775**

### **ONE TIME REGISTRATION FOR THIS USED OIL HANDLER**

Dear Registrant:

The Texas Commission on Environmental Quality (TCEQ) has received your "Registration for Used Oil Handler" form. Our records indicate that your application is administratively complete and you are currently registered in the State of Texas as the following:

**PROCESSOR  
TRANSFER FACILITY  
TRANSPORTER**

A copy of this registration must be retained at your designated place of business and if you are registered as a transporter, in each vehicle used to transport the above mentioned.

Your assigned TCEQ Registration Number is **A85775**. Please contact the TCEQ office within 30 days, whenever:

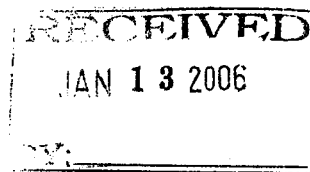
- \* the office mailing address is changed;
- \* the registered facility name has changed;
- \* there is a change in ownership; or
- \* it is determined that the operations or management methods are no longer adequately described in the existing registration.

If you should have any questions, please feel free to contact the Municipal Solid Waste (MSW) Registration Team at (512) 239-6832 option 2.

Used Oil Recycling Program  
Registration and Reporting Section  
Registration, Review, and Reporting Division

cc: TCEQ Region 12 - HOUSTON

Kathleen Hartnett White, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Larry R. Soward, *Commissioner*  
Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

January 11, 2006

DAN BOWMAN  
CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021

Re: Registration for Used Oil Filter Activities at: **CES ENVIRONMENTAL SERVICES**  
**4904 GRIGGS RD**  
**HOUSTON, TX 77021**

**TNRCC Registration No. A85775**

**REGISTRATION FOR THIS USED OIL FILTER HANDLER EXPIRES December 31, 2007**

Dear Registrant:

The Texas Commission on Environmental Quality (TCEQ) has received your "Registration for Used Oil Filter Handler" form. Our records indicate that your application is administratively complete and you are currently registered in the State of Texas as the following:

### **STORAGE FACILITY TRANSPORTER**

A copy of this registration must be retained at your designated place of business and if you are registered as a transporter, in each vehicle used to transport the above mentioned.

Your assigned TCEQ Registration Number is **A85775**. Please contact the TCEQ office within 30 days, whenever:

- \* the office mailing address is changed;
- \* the registered facility name has changed;
- \* there is a change in ownership; or
- \* it is determined that the operations or management methods are no longer adequately described in the existing registration.

If you should have any questions, please feel free to contact the Municipal Solid Waste (MSW) Registration Team at (512) 239-6832 option 2.

Used Oil Recycling Program  
Registration and Reporting Section  
Registration, Review, and Reporting Division

cc: TCEQ Region 12 - HOUSTON

Robert J. Huston, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
John M. Baker, *Commissioner*  
Jeffrey A. Saitas, *Executive Director*



## TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

*Protecting Texas by Reducing and Preventing Pollution*

May 2, 2000

Mr. Bob Thompson  
Wash Rack Manager  
Suttles Truck Leasing, Inc.  
4904 Griggs Road  
Houston, Texas 77021

Re: Permit by Rule Registration No. 15980  
Additional Chemicals  
Houston, Harris County  
Account ID No. HG-1270-B

Dear Mr. Thompson:

This is in response to your permit by rule, Forms PI-7-261, concerning your request to add crude Sodium Acetate, Sodium Nitrite, Trifluralin HF, Triethyleneamine, Duraphos (Dibutyl Hydrogen Phosphite), aqueous inorganic aggregate matter slurries and suspensions, aqueous metal oxide slurries and suspensions, 1,4-cyclohexanedimethanol, and polyethylene terephthalate to the approved chemical list at your tank container cleaning facility in Houston, Harris County. We understand the estimated routine emissions are 1.56 pounds per hour and 0.60 ton per year. We further understand this facility is located at least 100 feet from any off-plant receptor.

After evaluation of the information which you have furnished, we have determined that your request is authorized under 30 Texas Administrative Code (TAC) Section 106.261 if constructed and operated as described in your registration request. This permit by rule was authorized by the Texas Natural Resource Conservation Commission (TNRCC) pursuant to 30 TAC Chapter 106. A copy of the permit by rule in effect at the time of this registration is enclosed. You must operate in accordance with all requirements of the enclosed permit by rule.

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all rules and regulations of the TNRCC and of the U.S. Environmental Protection Agency at all times.

Mr. Bob Thompson  
Page 2  
May 2, 2000

Re: Permit by Rule Registration No. 15980

Your cooperation in this matter is appreciated. If you have any questions concerning this permit by rule, please call Mr. Monico Banda at (512) 239-1589 or write him at the Texas Natural Resource Conservation Commission, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-162), P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Tammy Villarreal  
Manager, Chemical and Coatings Section  
Air Permits Division

TV/MB/jo

Enclosure

cc: Mr. Arturo J. Blanco Air Section Manager, Houston  
Mr. Rob Barrett, Director, Harris County Pollution Control Department, Pasadena  
Mr. Manuel Aguirre, P.E., Chief, Bureau of Air Quality Control, Health and Human Services  
Department, Houston

Record No. 71507

EPAHO082001887

Kathleen Hartnett White, *Chairman*  
R. B. "Ralph" Marquez, *Commissioner*  
Larry R. Soward, *Commissioner*  
Glenn Shankle, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

April 28, 2005

Mr. Marlin Moser  
Business Manager  
CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, Texas 77021-3208

Re: Permits by Rule Registration Number: 75375  
Tank Container Cleaning Facility  
Houston, Harris County  
Regulated Entity Number: RN100693282  
Customer Reference Number: CN600618946

Dear Mr. Moser:

This is in response to your Form PI-7, entitled "Registration for Permits by Rule," concerning the addition of chemicals emitted from your tank cleaning operation located at 4904 Griggs Road in Houston, Harris County. We understand that this Permit by Rule claim is intended to authorize the addition of new chemicals to the list of chemicals previously approved for cleaning under Registration Number 15980. This claim does not represent an increase in volatile organic compound emissions over current allowable rates.

After evaluation of the information which you have furnished, we have determined that your modification is authorized under Title 30 Texas Administrative Code §§ 106.261 and 106.262 (30 TAC §§ 106.261 and 106.262) if constructed and operated as described in your registration request. These permits by rule were authorized by the Executive Director of the Texas Commission on Environmental Quality (TCEQ) pursuant to 30 TAC Chapter 106.

Copies of the permits by rule in effect at the time of this registration are enclosed. You must construct, install, or modify facilities in accordance with the version of the permits by rule in effect when construction, installation, or modification actually begins [see 30 TAC § 106.4(a)(5)]. After completion of construction, installation, or modification, the facility shall be operated in compliance with all the applicable conditions of the claimed permits by rule, and 30 TAC § 106.4.

You are reminded that regardless of whether a permit is required, these facilities must be in compliance with all rules and regulations of the TCEQ and of the U.S. Environmental Protection Agency at all times.

Mr. Marlin Moser  
Page 2  
April 28, 2005

Re: Permits by Rule Registration Number: 75375

Please reference the regulated entity number (RN), customer reference number (CN), and permit number noted in this document in all your future correspondence for the referenced facility or site. The RN replaces the former TCEQ account number for the facility (if portable) or site (if permanent). The CN is a unique number assigned to the company or corporation and applies to all facilities and sites owned or operated by this company or corporation.

Your cooperation in this matter is appreciated. If you have any questions concerning these permits by rule, please contact Mr. Dario Hearn at (713) 767-3740 or write to the Texas Commission on Environmental Quality, Office of Permitting, Remediation, and Registration, Air Permits Division (MC-163), P.O. Box 13087, Austin, Texas 78711-3087.

Sincerely,



Anne M. Inman, Manager  
General/Standard/Rule (GSR) Permit Section  
Air Permits Division  
Texas Commission on Environmental Quality

AMI/DJH/alb

Enclosures

cc: Mr. Philip B. Evans, Director - Technical Services, The WCM Group, Inc., Humble  
Mr. Arturo Blanco, Bureau Chief, Bureau of Air Quality Control, Health and Human Services  
Department, City of Houston, Houston  
Mr. Rob Barrett, Director, Harris County Public Health and Environmental Services, Pollution  
Control Department, Pasadena  
Air Section Managers, Region 12 - Houston

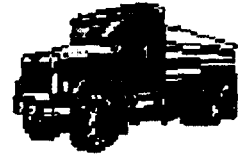
Project Number: 114405

EPAHO082001889

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
SLUDGE TRANSPORTER REGISTRATION**

Transporter Registration Number: 23198

8/11/2005



**BUSINESS INFORMATION**

**Company Name:** C E S ENVIRONMENTAL SERVICES INC

**Last Update:** 6/29/2005

**Tax ID:** 1 760592985 4

**Expiration Date:** 8/31/2007

**Charter Number:** 01520431

**Status:** Active

**Business Type:** Corporation

**Registered Since:** 10/23/2001

**Texas County:** Harris

**Cancellation Date:**

**TCEQ Region:** 12

**Haul waste from TX  
to another state?** N

**Haul waster from  
another state to TX?** N

**Physical Address:**

4904 GRIGGS RD  
HOUSTON, TX 77021-3200

**Mailing Address:**

4904 GRIGGS RD  
HOUSTON, TX 77021

**Contact Information:**

**Contact Name:** MR ERIC FISHER

**Phone:** 713-676-1460 Ext.

**Fax:** 713-676-1676

**E-Mail:**

**Sticker Numbers Issued:** The stickers listed below will expire on 8/31/2007.

0490, 0491, 0492, 0493, 0494, 0495, 0496, 0497, 0498, 0499, 0500, 0501, 0502, 0503, 0504, 0505, 2346

**This is your registration** which reflects the information submitted on your application to the Register or Renew as a Transporter of Municipal Sludge(s) and Similar Wastes. Requirements for transportation are provided in accordance with 30 TAC Chapter 312. Issuance of this registration is not acknowledgement by the TCEQ that your operation is in full compliance with the rules and regulations of the TCEQ. Changes or additions referred to this notice require written notification to the TCEQ. Please keep a copy of this registration in every vehicle transporting sludge and all locations where business is being transacted under this registration.

EPAHO082001890



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

400 Seventh St., S.W.  
Washington, D.C. 20590

May 8, 2001

Mr. Steven K. Stricker  
Operations Head  
CES Environmental Services Inc.  
3901 Trailmobile Drive  
Houston, Texas 77013

Dear Mr. Stricker:

Under Section 107.503 of Title 49, Code of Federal Regulations (49 CFR), and based upon your letter requesting registration, CES Environmental Services Inc. located at 3901 Trailmobile Drive, Houston, Texas is assigned registration identification number CT-2293.

This registration identification number is issued with the understanding that your use of the registration number as provided in the regulations is considered a certification of compliance of all work performed. The issuance of this registration number is not an approval or endorsement by the Department of Transportation of qualifications or processes you have documented. In addition, a copy of your application, all supporting documentation and a copy of this registration must be retained and made available to DOT upon request.

Each registration must be renewed in accordance with Section 107.504 by submitting an up-to-date registration statement containing the information prescribed by Section 107.503. All submittals must reference the registration number noted above.

Sincerely,



James Enoch Jones  
Chief, Approvals Program  
Office of Hazardous Materials  
Exemptions and Approvals





# ARKANSAS HIGHWAY POLICE

A Division of the Arkansas State Highway and Transportation Department  
www.arkansashighways.com

Dan Flowers, Director - AHTD

Ron Burks, Chief - AHP

P.O. Box 2779 • Little Rock, Arkansas 72203-2779 • Telephone (501) 569-2421 • FAX (501) 568-4921

## ARKANSAS HAZARDOUS WASTE TRANSPORTATION PERMIT

CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, TX 77021

Permit No. H-1339  
EPA ID No. TXD008950461  
Date Issued 8-19-06

### ORDER AND PERMIT

It appearing that the above named carrier has met with all applicable provisions of the rules and regulations adopted by the Arkansas Highway Police under authority of the Arkansas Hazardous Waste Management Act, and therefore, is issued a permit from the Arkansas Highway Police to engage in the transportation of hazardous waste in and/or through the State of Arkansas, for a period of one (1) year.

The above said carrier is hereby issued this permit subject to such terms, conditions, and limitations as are now, or may hereafter be attached to the exercise of the privileges herein granted.

It is a condition of the permit that the holder shall comply with all rules and regulations of the Arkansas Highway Police and the laws of the State of Arkansas concerning the transportation of hazardous waste and operation of a motor vehicle over the highways of this State.

This permit does not confer any operating authority to said carrier and shall not be considered as such.

This permit shall terminate one (1) year from the date issued, but may be subject to renewal upon application of the carrier.

Entered this 15<sup>th</sup> day of August, 2006

  
Ronnie Burks, Chief  
ARKANSAS HIGHWAY POLICE

Post-it® Fax Note	7671	Date	8/15	# of pages	1
To	Mr. Hatcher Shengul				
From	Page McPherson				
Co./Dept.	CES	Co.	AHP		
Phone #	713-676-1460	Phone #	501-569-2425		
Fax #	713-676-1676	Fax #	501-568-4921		

EPAHO082001892



TXD008950461-2157 869392 - 14 - 32 - 21

State of Tennessee  
Department of Environment and Conservation  
Division of Solid Waste Management  
Hazardous Waste Program  
401 Church Street, L & C Tower 5th Floor  
Nashville, TN 37243-1535

H

CJONES

**HAZARDOUS WASTE TRANSPORTER PERMIT***This Certifies That***CES ENVIRONMENTAL SERVICES INC**

4904 GRIGGS RD  
HOUSTON, TX USA

HAS BEEN GRANTED A PERMIT TO TRANSPORT HAZARDOUS WASTES THAT ORIGINATE IN THE STATE  
OF TENNESSEE AND / OR HAVE A TENNESSEE DESTINATION

**PERMIT NUMBER : TXD008950461****EFFECTIVE DATE : November 22, 2004****EXPIRATION DATE : January 31, 2006**

**THIS PERMIT IS NOT TRANSFERABLE**  
**PERMIT EFFECTIVE UNTIL THE ABOVE EXPIRATION DATE UNLESS SUSPENDED,**  
**REVOKED, OR VOLUNTARILY RESCINDED**

**SPECIAL INSTRUCTIONS:**

1. AN ORIGINAL OR PHOTOCOPY OF THIS PERMIT MUST BE KEPT IN EACH TRANSPORT VEHICLE
2. GENERATORS OF HAZARDOUS WASTE IN THE STATE OF TENNESSEE ARE REQUIRED TO VERIFY THAT THE TRANSPORTERS TO WHOM THEY GIVE THEIR WASTE MUST HOLD A VALID TENNESSEE HAZARDOUS WASTE TRANSPORTER PERMIT. YOU ARE REQUIRED TO SHOW THIS DOCUMENT TO THEM UPON THEIR VERBAL REQUEST
3. REPORT SPILLS WITHIN THE STATE OF TENNESSEE IMMEDIATELY TO 1-800-262-3300 (THE TENNESSEE EMERGENCY MANAGEMENT AGENCY - T.E.M.A.)
4. THIS PERMIT SUPERCEDES ANY PREVIOUSLY ISSUED STATE OF TENNESSEE HAZARDOUS WASTE TRANSPORTER PERMIT. PREVIOUSLY ISSUED PERMITS, INCLUDING ORIGINALS, FACSIMILES AND PHOTOCOPIES SHOULD BE DESTROYED.

**QUESTIONS REGARDING THE VALIDITY OF THIS PERMIT SHOULD BE ADDRESSED TO:**

State of Tennessee  
Department of Environment and Conservation  
Division of Solid Waste Management  
Waste Activity Audit - Attention Connie Jones  
401 Church Street, 5th Floor Annex  
Nashville, TN 37243-1535  
PHONE: 615-532-0815 FAX: 615-532-0886

*Mike Apple*  
Mike Apple, Director  
Division of Solid Waste Management

1/27/2005  
Date

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U.S. Department  
of Transportation

Federal Motor  
Carrier Safety  
Administration

CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS ROAD  
HOUSTON TX 77021

400 Seventh St., S.W.  
Washington, D.C. 20590

December 16, 2002

In reply refer to:  
Your USDOT No.: 869392  
Review No.: 258575/CR

Dear Motor Carrier:

The motor carrier safety rating for your company is:

SATISFACTORY

This SATISFACTORY rating is the result of a review and evaluation of your safety fitness completed on December 11, 2002. A SATISFACTORY rating indicates that your company has adequate safety management controls in place to meet the safety fitness standard prescribed in 49 C.F.R. 385.5.

Please assure yourself that any specific deficiencies identified in the review report have been corrected. We appreciate your efforts toward promoting motor carrier safety throughout your company. If you have questions or require further information, please contact your local Federal Motor Carrier Safety Administration office listed below:

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL MOTOR CARRIER SAFETY ADMINISTRATION  
300 EAST 8TH STREET, SUITE 865  
AUSTIN, TX 78791  
Telephone No.: 512-536-5980

Charles A. Horan, III  
Director, Office of Enforcement  
and Compliance



U.S. Department of Transportation  
Federal Motor Carrier Safety Administration

400 Virginia Avenue, SW, Suite 600  
Washington, DC 20024

**SERVICE DATE**  
July 16, 2001

**CERTIFICATE**

**MC-400234-C**

**CES ENVIRONMENTAL SERVICES INC**  
**HOUSTON, TX**

This Certificate is evidence of the carrier's authority to engage in transportation as a **common carrier of property (except household goods)** by motor vehicle in interstate or foreign commerce.

This authority will be effective as long as the carrier maintains compliance with the requirements pertaining to insurance coverage for the protection of the public (49 CFR 387) and the designation of agents upon whom process may be served (49 CFR 366). The carrier shall also render reasonably continuous and adequate service to the public. Failure to maintain compliance will constitute sufficient grounds for revocation of this authority.

Terry Shelton, Director  
Office of Data Analysis & Information Systems

**NOTE:** Willful and persistent noncompliance with applicable safety fitness regulations as evidenced by a DOT safety fitness rating of "Unsatisfactory" or by other indicators, could result in a proceeding requiring the holder of this certificate or permit to show cause why this authority should not be suspended or revoked.

CMO

EPAHO082001895



U.S. Department  
of Transportation

Federal Motor  
Carrier Safety  
Administration

400 Seventh St., S.W.  
Washington, D.C. 20590

APRIL 12, 2000

CES ENVIRONMENTAL SERVICES INC  
3901 TRAILMOBILE DR  
HOUSTON TX 77013

713/676-1460

Dear Motor Carrier:

This letter is to notify you of your USDOT identification number and to draw your attention to the requirement for Marking of Commercial Motor Vehicles in section 390.21 of the Federal Motor Carrier Safety Regulations. A copy of this regulation is enclosed. Its primary purpose is to assist enforcement personnel in properly identifying motor carriers, thereby assuring the submission of accurate data to the U. S. Department of Transportation, Federal Motor Carrier Safety Administration. The number also affords the public a way to quickly and accurately identify a motor carrier operating a particular commercial motor vehicle.

If you are operating as a private motor carrier of property or passengers in interstate commerce, as a for-hire motor carrier of property in interstate commerce not subject to regulation by the former Interstate Commerce Commission, or as an interstate motor carrier of migrant workers, this regulation requires you to mark all of your "self-propelled motor vehicles" (generally straight trucks and truck tractors) in accordance with the enclosed.

The following USDOT identification number is assigned to the motor carrier identified above:

USDOT 869392

This letter is being sent to every motor carrier recently added to Federal Motor Carrier Safety Administration records. There has been no attempt to differentiate among private, migrant worker, for-hire, or other types of motor carriers because many carriers conduct operations in a combination of these classifications. If you have questions about compliance with this requirement, please contact the office shown below:

U. S. DEPARTMENT OF TRANSPORTATION  
FEDERAL MOTOR CARRIER SAFETY ADMINISTRATION  
ROOM 8A00 FEDERAL BUILDING  
819 TAYLOR STREET  
FORT WORTH, TEXAS 76102  
817 / 978-3225

EPAHO082001896

**UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION  
PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION**



**HAZARDOUS MATERIALS  
CERTIFICATE OF REGISTRATION  
FOR REGISTRATION YEAR(S) 2006-2009**

**Registrant:** CES ENVIRONMENTAL SERVICES INC  
Attn: PRABHAKAR R. THANGUDU  
4904 GRIGGS ROAD  
HOUSTON, TX 77021

This certifies that the registrant is registered with the U.S. Department of Transportation as required by 49 CFR Part 107, Subpart G.

This certificate is issued under the authority of 49 U.S.C. 5108. It is unlawful to alter or falsify this document.

**Reg. No:** 052506 550 089OQ    **Issued:** 05/25/2006    **Expires:** 06/30/2009

**Record Keeping Requirements for the Registration Program**

The following must be maintained at the principal place of business for a period of three years from the date of issuance of this Certificate of Registration:

- (1) A copy of the registration statement filed with PHMSA; and
- (2) This Certificate of Registration

Each person subject to the registration requirement must furnish that person's Certificate of Registration (or a copy) and all other records and information pertaining to the information contained in the registration statement to an authorized representative or special agent of the U. S. Department of Transportation upon request.

Each motor carrier (private or for-hire) and each vessel operator subject to the registration requirement must keep a copy of the current Certificate of Registration or another document bearing the registration number identified as the "U.S. DOT Hazmat Reg. No." in each truck and truck tractor or vessel (trailers and semi-trailers not included) used to transport hazardous materials subject to the registration requirement. The Certificate of Registration or document bearing the registration number must be made available, upon request, to enforcement personnel.

For information, contact the Hazardous Materials Registration Manager, DHM-60, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, 400 Seventh Street, SW, Washington, DC 20590, telephone (202) 366-4109.



Comptroller  
of Public Accounts  
56-302  
(Rev. 1-03/3)

**TEXAS**  
**INTERNATIONAL FUEL TAX AGREEMENT LICENSE**

*This license is issued under the terms of the International Fuel  
Tax Agreement and is valid for vehicles operated by the licensee  
in all IFTA jurisdictions.*

**THIS LICENSE IS NON-TRANSFERABLE**

Taxpayer name and mailing address

CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON TX 77021-3208

License year	2006
IFTA license number	TX76059298514
Effective date	01/01/2006
Expiration date	12/31/2006
Texas taxpayer number	1-76-0592985-4

**CAROLE KEETON STRAYHORN**  
Comptroller of Public Accounts



# Texas Department of Transportation

DEWITT C. GREER STATE HIGHWAY BLDG. 125 E. 11TH STREET AUSTIN, TEXAS 78701-2483 (512) 463-8585

Oct 14 2005

## REGISTRATION RECEIPT - Truck

TX Dept. of Transportation  
Post Office Box 12984  
Austin, TX 78711-2984  
(800) 299-1700

In accordance with Public Law 104-88,  
this receipt (evidencing compliance  
with FHWA registration regulations)  
must be carried in the vehicle cab and  
may not be altered. Alteration will  
result in confiscation and penalties.

ICC Nbr: MC 400234  
CES ENVIRONMENTAL SERVICES INC.

4904 GRIGGS ROAD  
HOUSTON, TX 77021

Print Date: 10/11/2005

Effective: 01/01/2006 Expires: 12/31/2006

Receipt No: TRM263071 (Initial Order)

This receipt authorizes this motor carrier  
to operate in the following states:

\*\*\*\*\*AR(00016),KS(00016),LA(00016),  
NM(00016),OK(00016),TN(00016),\*\*\*\*\*

Form RS-3

Mail to:

CES ENVIRONMENTAL SERVICES INC.  
4904 GRIGGS ROAD  
HOUSTON, TX 77021

EPAHO082001899

# CITY OF HOUSTON

## Solid Waste Management Department

PO Box 1562, Houston, Texas 77251-1562  
611 Walker St 12th Fl, Houston, Texas 77002  
713-837-9159 (Voice) / 713-837-9125 (Fax)

Customer

Permit Number

04104589/3493928

Service Address

Mail to Address

CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021

CES ENVIRONMENTAL SERVICES INC  
4904 GRIGGS RD  
HOUSTON, TX 77021

### COMBUSTIBLE WASTE STORAGE PERMIT

This permit applies only to property located within the jurisdiction of the City of Houston, Texas.

This permit is restricted to the property listed above and must be clearly posted at that location.

This permit applies only to the type of activity noted above; other permits may be required for other activities.

Be it understood that if the person (listed above) who obtained this permit ceases to have control over the indicated property, this permit shall become invalid. A new permit will be required that shows the person who has control over the property.

This permit was issued and is valid between the dates shown below unless revoked for violation of the terms or conditions under which approval was made.

The issuance of this permit does not constitute approval by the City of Houston for the violation of any deed restriction, or any city, state, and federal laws, regulations or ordinances. Each holder and/or person acting under the authority of this permit is personally responsible for complying with deed restrictions and city, state, and federal laws relating to the activity contemplated by this permit.

Inception Date: 20-JAN-2005

No. of Storage Units on Site: (Two)

Expiration Date: 20-JAN-2007

EPAHO082001900



in the name and by the authority of

Name of Establishment CES ENVIRONMENTAL SERVICE, INC.  
 Address 4904 GRIGGS RD HOUSTON, TX 77021

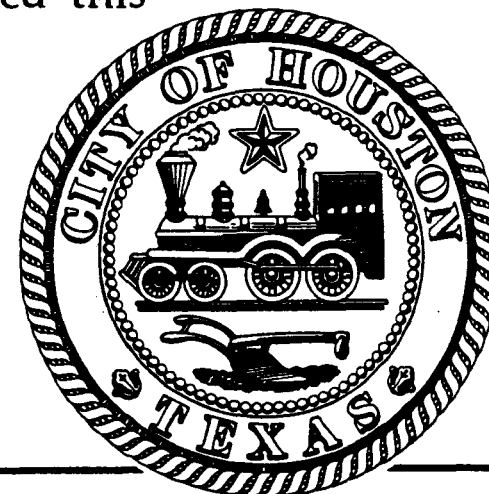
In conformity with the Statutes of the State  
 of Texas, the Ordinances of the City of Houston, and the regulations  
 of the Public Health Department, is granted this

City/TNRCC Registration No.: 84887 (TRAP #B))

Issued Date  
7/11/2002

Waste Capacity (measured): \_\_\_\_\_ gallons

RE  
 Inspector: *[Signature]*  
*Don Bowman* Don Bowman



TNRCC No 30900

Permit No. 637

**CITY OF HOUSTON**  
**DEPARTMENT OF HEALTH AND HUMAN SERVICES**  
**ENVIRONMENTAL HEALTH DIVISION**

**OPERATING PERMIT**

For the Transportation and Biological Pretreatment of Special Waste Within the Territorial Jurisdiction of the City of Houston, Texas

This is to certify that a permit is hereby issued to :

**CES ENVIRONMENTAL SERVICES, INC**

**(713)676-1460**

Name of firm, Corporation or individual

Telephone No

**4904 GRIGGS RD. HOUSTON TX 77021**

Address

for the transportation of industrial and/or special waste in accordance with, and subject to the provisions set forth in Ordinance No. 47-411-47-600, City of Houston, Texas.

**MATT BOWMAN**

Name and title of principal officer

**4904 GRIGGS HOUSTON TX 77021**

Address

Type of Waste to be Transported :

Class A - Septic Tank ( ) \_\_\_\_\_

Class B - Grease Trap ( ) ; Portable Toilet ( ) ; Sewage Sludge ( )

Class C - Industrial/Nonhazardous ( ☒ ) List Grit, lint

- Biological Pretreatment ( )

Permit Valid until January 31, 2007

Financial Responsibility :

**TEXAS MUTUAL INS. CO.**

Issued by

*Mike Deduke*

Section Chief, Special Waste.

**1/9/2006**

Date

**4/26/2006**

Expiration Date

Form 765-1

EPAHO082001902

# CITY OF HOUSTON

## DEPARTMENT OF PUBLIC WORKS AND ENGINEERING WASTEWATER OPERATIONS INDUSTRIAL WASTEWATER SERVICE

Permit No. 6806

10500 BELLAIRE BLVD.  
HOUSTON, TEXAS 77072  
PHONE: (281) 575-2800

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Authorization to discharge under the City of Houston Industrial Waste Ordinance  
Chapter 47; Article V:

**CES ENVIRONMENTAL SERVICES**  
**4904 GRIGGS ROAD**  
**HOUSTON, TX 77021**

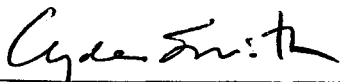
is authorized to discharge into the City's collection system raw liquid waste in  
accordance with effluent limitations, monitoring requirements and other conditions set  
forth in this permit at the following location:

4904 GRIGGS ROAD, HOUSTON, TX 77021

Regulated Waste Offsite Disposal: **Yes**  
EPA Categorical Limits Applicable: **No**  
Significant Industrial User: **Yes**  
Pretreatment: **Yes**  
Category: **TRANSPORTATION EQUIPMENT CLEANING**  
Product/Service: **PETROCHEMICAL TRANSPORTATION**  
SIC Code No. (s): **4212**  
Key Map No.: **534-J** Sewer Map No.: **1604B**  
Treatment Plant: **SIMS SOUTH**  
Special Provisions: **No**

This permit shall become effective on 01/14/2005 and the authorization to discharge shall  
expire at midnight 01/14/2007.

Signed this 5 day of **January 2005**



Clyde Smith

Assistant Operations Manager, Pretreatment Program Enforcement Group

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EPAHO082001903

# CITY OF HOUSTON

DEPARTMENT OF PUBLIC WORKS AND ENGINEERING  
WASTEWATER OPERATIONS  
INDUSTRIAL WASTEWATER SERVICE

Permit No. 9558

10500 BELLAIRE BLVD.  
HOUSTON, TEXAS 77072  
PHONE: (281) 575-2800

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Authorization to discharge under the City of Houston Industrial Waste Ordinance  
Chapter 47; Article V:

**CES ENVIRONMENTAL SERVICES, INC.\***  
**4904 GRIGGS ROAD**  
**HOUSTON, TX 77021**

is authorized to discharge into the City's collection system raw liquid waste in  
accordance with effluent limitations, monitoring requirements and other conditions set  
forth in this permit at the following location:

4904 GRIGGS ROAD, HOUSTON, TX 77021

Regulated Waste Offsite Disposal: Yes

EPA Categorical Limits Applicable: Yes

Significant Industrial User: Yes

Pretreatment: Yes

Category: **DISPOSAL SITE FOR WASTEWATER FROM TREATED OR  
UNTREATED TRUCKED IN WASTE**

Product/Service: **NON-HAZARDOUS WASTE RECEIVING & TRANSFER  
FACILITY WASTEWATER TREATMENT AND  
DISPOSAL SITE**

NAICS Code(s): **562219**

Key Map No.: **534-J** Sewer Map No.: **1604B**

Treatment Plant: **SIMS SOUTH**

Special Provisions: **No**

This permit shall become effective on 12/14/2005 and the authorization to discharge shall  
expire at midnight 12/14/2007.

Signed this 14 day of December 2005

  
Clyde Smith

Environmental Investigator IV  
City of Houston Pretreatment Program

Commission  
des transports

Québec

Direction des services à la clientèle et des communications

Montréal, le 27 juillet 2006

CES ENVIRONMENTAL SERVICES, INC.  
4904, Griggs Road  
Houston, Texas, 77021 (États-Unis)

NUMÉRO D'IDENTIFICATION AU REGISTRE (NIR) : R-581178-2  
COTE DE SÉCURITÉ: Satisfaisant  
HEURE D'INSCRIPTION AU REGISTRE : 17 h 00

**OBJET:** Inscription au Registre des propriétaires et exploitants de véhicules  
lourds

Nous vous confirmons votre inscription au Registre des propriétaires et des exploitants de véhicules lourds et vous confirmons également que vous êtes autorisé à mettre en circulation ou à exploiter un véhicule lourd sur un chemin ouvert à la circulation publique. Le numéro d'identification au Registre (NIR) et la cote de sécurité qui vous ont été attribués sont indiqués ci-dessus.

Lorsque requis, la Commission vous transmettra un formulaire qui vous servira à mettre à jour les renseignements que vous nous avez fournis lors de votre inscription.

Les exploitants qui effectuent du transport extra-provincial devraient, lorsqu'ils circulent ailleurs au Canada, conserver dans leur véhicule un document attestant leur inscription au Québec, afin de le présenter au besoin lors d'un contrôle routier. Pour obtenir gratuitement cette attestation, accédez au site [www.ctq.gouv.qc.ca](http://www.ctq.gouv.qc.ca) et choisissez l'option vous permettant de consulter votre cote de sécurité; vous pourrez alors imprimer une fiche attestant de votre inscription. Si vous n'avez pas accès à Internet, vous pouvez communiquer avec notre Service à la clientèle au numéro de téléphone indiqué ci-dessous.

Si vous désirez obtenir des renseignements supplémentaires à ce sujet, vous pouvez joindre notre Service à la clientèle en mentionnant votre numéro d'identification au registre (NIR).

MF4

Québec  
200, Chemin Sainte-Foy, 7e étage  
Québec (Québec) H2M 2V1  
Téléphone: 1 888 461-2433  
Télécopieur: (418)644-8034  
[www.ctq.gouv.qc.ca](http://www.ctq.gouv.qc.ca)

Montréal  
545, boul. Crémazie Est,  
bureau 1000, 10e étage,  
Montréal (Québec) H2M 2V1  
Téléphone: 1 888 461-2433  
Télécopieur: (514)873-4720



**PERMAX** SERVICE DE PERMIS LTÉE  
PERMIT SERVICE LTD.

Permax Number: 3034

CES ENVIRONMENTAL SERVICES, INC.

4904, GRIGGS RD

HOUSTON, TX 77021

R-581178-2

Effective Date: 27-Jul-06

**Due to recent changes within the Quebec Provincial Government, all correspondences to registered companies must be sent in the French language. We as your Process Agent in the Province are pleased to provide you with the English translation. We at Permax strive to provide our customers with the most accurate and up to date information. If however there should be a difference in the contents between the English and French versions, the French version is the one that takes precedence.**

**NOTICE OF REGISTRATION  
IN THE REGISTRE DES PROPRIETAIRES ET DES EXPLOITANTS  
DE VEHICULES LOURDE**

Following your application, we confirm your registration in the Register of owners and operators of heavy vehicles. Your register identification number (NIR/RIN) and the rating assigned to you are indicated above.

The Commission will transmit a form to you once a year. This form will serve to Update the information you provided to us at the time of your registration.

The Act which concerns owners and operators of heavy vehicles requires that you inform the Commission des Transports, within 30 days of the change, of any change in your name and address and, as the case may be, in the names and addresses of your directors.

If you wish to obtain additional information on this matter, you can contact our Customer Service, mentioning your Registration Identification Number (NIR/RIN)

**If you have any questions or concerns, please do not hesitate to contact our office.**

EPAHO082001906



## **Safety Policies and Procedures Manual**

# **CES ENVIRONMENTAL SERVICES, INC.**

## **PERSONNEL TRAINING PLAN FOR INDUSTRIAL SOLID WASTE PERMIT NO. 39048**

**MARCH 2005  
(Revised June 05)**

# Spill Prevention Control and Countermeasure Plan

For

CES Environmental Services, Inc  
4904 Griggs Road  
Houston, Texas 77021

Original Plan Date – March 14, 2002

Designated person accountable for spill prevention:

**Matt Bowman – President**  
**Sean Easton – Vice President**

## Certification

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR § 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

Engineer: Carl W. Wilson III

Signature: Carl W. Wilson III

Registration Number: 77256

State: TEXAS

Date: 3-17-04



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CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, Texas 77021  
(713) 676-1460

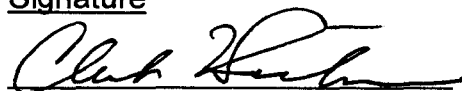
SPILL PREVENTION CONTROL  
AND  
COUNTERMEASURE COMPLIANCE INSPECTION PLAN  
REVIEW PAGE

In accordance with 40 CFR § 112.5(b), a review and evaluation of this SPCC Plan is conducted at least once every 3 years. As a result of this review and evaluation, CES Environmental Services, Inc. (CES) will amend the SPCC Plan within 6 months of the review to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field-proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within 6 months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines.

Review Dates

Signature

July 1, 2005



July 1, 2008

\_\_\_\_\_

July 1, 2011

\_\_\_\_\_

July 1, 2014

\_\_\_\_\_

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\* SPCC Plan amended and certified by a Registered Professional Engineer per 40 CFR § 112.3(d).

MANAGEMENT APPROVAL

CES is committed to the prevention of discharges of oil to navigable waters and the environment, and maintains the highest standards for SPCC through regular review, updating and implementation of this SPCC Plan for the facility at 4904 Griggs Road in Houston, Texas.

FACILITY REPRESENTATIVE



Sean Easton  
Vice President

CONTINGENCY/EMERGENCY  
RESPONSE PLAN  
FOR PROCEDURES IN THE EVENT  
OF AN EMERGENCY

CES ENVIRONMENTAL SERVICES, INC.

4904 Griggs Rd.

HOUSTON, TX 77021

TELEPHONE: (713) 676-1460

TXD008950461

June 24, 2002

**CES ENVIRONMENTAL SERVICES, INC.**

**SECURITY PLAN  
FOR  
INDUSTRIAL SOLID WASTE PERMIT  
NO. 39048**

**MARCH 2005**

EPAHO082001912

<b>ACORD CERTIFICATE OF LIABILITY INSURANCE</b>		OP ID SJ CESEN-1	DATE (MM/DD/YYYY) 12/28/05
<b>PRODUCER</b>  Insurance Alliance 1776 Yorktown, #200 Houston TX 77056 Phone: 713-966-1776 Fax: 713-966-1700		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
<b>INSURED</b>  CES Environmental Services, Inc 4904 Griggs Road Houston TX 77021		<b>INSURERS AFFORDING COVERAGE</b>  INSURER A: American International Group INSURER B: Texas Mutual Ins Co INSURER C: Great American Insurance Co INSURER D: INSURER E:	<b>NAIC #</b>      

### COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	<b>GENERAL LIABILITY</b>	1370815	12/11/05	12/11/06	EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
	<input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				MED EXP (Any one person) \$ 10,000
	<input checked="" type="checkbox"/> Professional Liab				PERSONAL & ADV INJURY \$ 1,000,000
A	GEN'L AGGREGATE LIMIT APPLIES PER:	1370815	12/11/05	12/11/06	GENERAL AGGREGATE \$ 2,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				PRODUCTS - COMP/OP AGG \$ 2,000,000
A	<b>AUTOMOBILE LIABILITY</b>	1955090	12/11/05	12/11/06	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS				
	<input type="checkbox"/> NON-OWNED AUTOS				
	<b>GARAGE LIABILITY</b>				AUTO ONLY - EA ACCIDENT \$
	<input type="checkbox"/> ANY AUTO				OTHER THAN EA ACC \$
					AUTO ONLY: AGG \$
A	<b>EXCESS/UMBRELLA LIABILITY</b>	0791172	12/11/05	12/11/06	EACH OCCURRENCE \$ 5,000,000
	<input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE \$ 5,000,000
	<input type="checkbox"/> DEDUCTIBLE				\$
	<input checked="" type="checkbox"/> RETENTION \$10,000				\$
					\$
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>	TSF0001086044	01/25/05	01/25/06	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTHER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT \$ 1,000,000
	If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
					E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	<b>MOTOR TRUCK CARGO</b>	IMP6758691	12/11/05	12/11/06	Veh/Loss 10000/10000
A	<b>POLLUTION/on/off</b>	PLS1423904	04/26/05	04/26/06	Per Claim 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Additional Insured (Except Workers Compensation) and Waiver of Subrogation are included in favor of the certificate holder, as required by written contract

<b>CERTIFICATE HOLDER</b>  <div style="text-align: center;">SAMPLE1</div> Sample Certificate for information purposes only	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.  AUTHORIZED REPRESENTATIVE 
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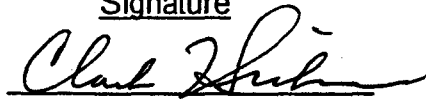
Spill Prevention Control and Countermeasure  
Compliance Inspection Plan  
Review Page

In accordance with 40 CFR § 112.5 (b), a review and evaluation of this SPCC plan is conducted at least once every three years. As a result of this review and evaluation, CES Environmental Services will amend the SPCC Plan within six months of the review to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field-proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines.

Review Dates:

Signature

July 1, 2005



July 1, 2008

\_\_\_\_\_

July 1, 2011

\_\_\_\_\_

July 1, 2014

\_\_\_\_\_

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\* SPCC Plan amended and certified by a Registered Professional Engineer per 40 CFR § 112.3 (d).

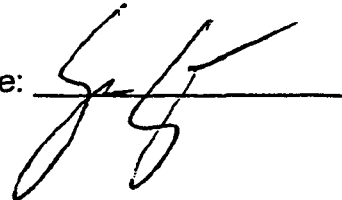
MANAGEMENT APPROVAL

CES Environmental Services is committed to the prevention of discharges of oil to navigable waters and the environment, and maintains the highest standards for spill prevention control and countermeasures through regular review, updating and implementation of this Spill Prevention Control and Countermeasures Plan for the facility located at 4904 Griggs Road in Houston, Texas.

Facility Representative: Sean Easton

Title: Vice President

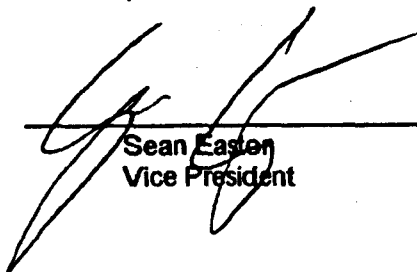
Signature: \_\_\_\_\_



**Storm Water Pollution Prevention Plan  
For TPDES Multi-Sector General Permit  
CES Environmental Services, Inc  
Houston, Harris County, Texas**

**Prepared for**

**CES Environmental Services, Inc.  
4904 Griggs Road  
Houston, Texas 77021**



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**Sean Easton  
Vice President**

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**Lacy Lamb  
Consultant**

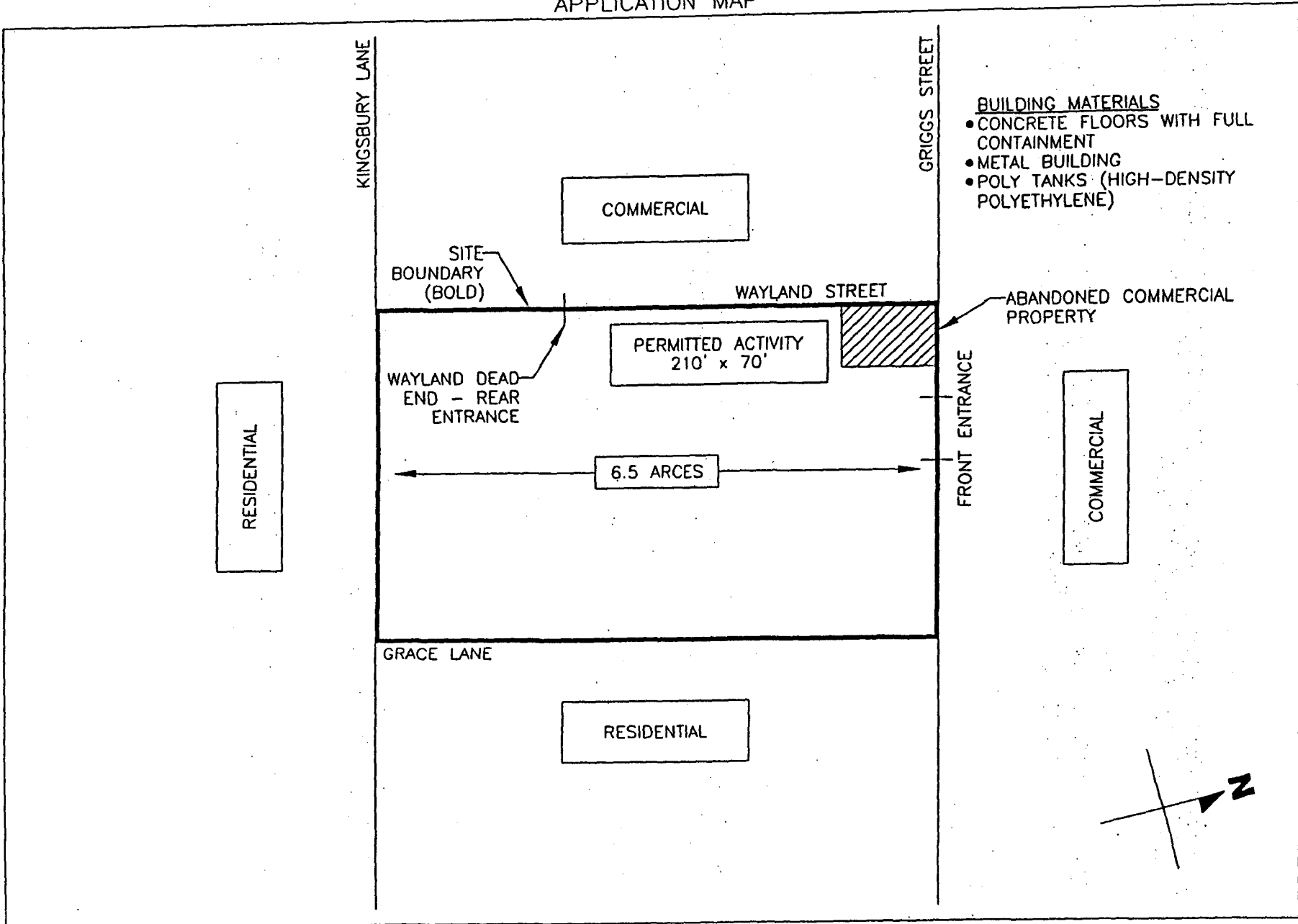
**November 12, 2003**

**CES ENVIRONMENTAL SERVICES, INC  
4904 GRIGGS ROAD  
HOUSTON, TEXAS 77021  
(713) 676-1460**

Industrial Solid Waste Permit No. 39048  
Permittee: CES Environmental Services, Inc.

**ATTACHMENT B**  
**FACILITY MAP**

APPLICATION MAP



**ATTACHMENT F.8**  
**GROUND AND SURFACE WATER**  
**PROTECTION UNIT PLAN**

### **Ground and Surface Water Protection Plan**

All permitted activities will take place under cover. There will be minimal exposure to storm water or surface water. Any surface water run-off that reaches the permitted locations on the property will be pumped out with a vacuum truck and stored on-site in the wastewater holding tank. The material will then be shipped off-site to a permitted TSDF. Storm water reaching any of the non-permitted portions of the property will be discharged to the City of Houston Municipal Separate Storm water Sewer System. This water will be protected by an on-site storm water pollution prevention plan that is a part of CES Environmental Services Contingency Plan.

### **Closure Plan**

Due to the nature of the facility as a bulking facility; closure activities will be minimal in comparison to a landfill or surface impoundment. In the event that the Texas Commission on Environmental Quality was in the position to perform the closure of this facility, the agency would conduct the normal public notification and consultant hiring procedures.

The equipment necessary to cleanup the facility in the event of closure will be a drum truck, a roll-off truck, a vacuum truck and forklifts. All structures at the facility are permanent and would require no dismantling. A forklift will be needed to load any remaining drummed waste at the facility. Material already processed in roll-off containers will need to be sampled.

This facility will only be taking non-hazardous materials, however, the consultants should sample the roll-off boxes and wastewater tanks to ensure there is not a more effective method to treat and dispose of the material. Materials will then be loaded on a roll-off truck and/or vacuum truck for transportation. All material taken into the facility will be a non-hazardous solid; therefore, all material could be taken to the landfill.

Any liquid remaining in the 6,500-gallon holding tank will be shipped via vacuum truck to an approved treatment, storage and disposal facility.

**CES ENVIRONMENTAL SERVICES, INC.**

**GENERAL INSPECTION REQUIREMENTS  
FOR  
INDUSTRIAL SOLID WASTE PERMIT 39048**

**MARCH 2005**

## Time Line of Events

06/2005 - 2 semi trucks stolen from CES property during busiest time of year

06/20/06- Mark Smith Hired as CES Employee

- a. Mark on the cover picture of article about odors from Channel 13 news
- b. ABC article also states 153 complaints since September 2006- Mark hired June 2006.
- c. Mark has done prison time for many crimes including murder, etc.- CES gave him an opportunity to have a good job and he fooled us into thinking he is now a religious, changed man.

07/2007- Semi truck stolen from employee's home- again stolen during the busiest time of year.

Note: all 3 trucks were stolen and found at the same lot off East Hardy and called in by the same person in both 2005 and 2007 thefts. These trucks are new Peterbilts worth in excess of \$100,000 each.

08/2006- 5 expensive plant bikes stolen at night and stolen in a manner that could not be viewed by our security cameras.

- a. Because the bikes were stolen the day after purchase and assembly, no serial number were obtained, but was on the agenda for the following day.
- b. Brian Weathers purchased an identical, new bike from a pawn shop down the street.
- c. Police were told about this and did nothing because we didn't have serial numbers yet.

**6/25/08- Karl Guidry** files suit on AES after over a year from his departure from the company

- a. Karl left AES voluntarily for higher pay
- b. By his own admission, he left AES with lots of money in retirement

**6/27/08- Sebastian McCrimmons and Chris Jiles ( Black Panther Member) file EEOC Complains on CES**

**06/27/08- 02/2009- 8 EEOC cases filed against CES** which have been combined into 1 legal case.

- a. 1999-6/27/08- no EEOC complaints against CES

04/2008-11/2008- Substantial spills mysteriously appeared on the CES yard exactly at the same time when customers were scheduled to audit CES for approval to do business with our company. Additionally, City inspectors or TCEQ showed up 5 min before or after audits were scheduled (PPG, Waste Management, and several others). Usually only the managers were privy to these dates. Karl was always asked to be available for these audits for HSE reasons. This happened at least 5 times and we know that Gregory Lawrence and Mark Smith were involved at least once apiece. In fact, in one instance we know that Mark made the spill and then called Naomi (from the BACQ) at 6 am in the morning and came out immediately. We believe she was corroborating with Mark Smith and this was

verified in a meeting we had with the City and brought up and said turned bright red in the face (although we did not mention her by name).

06/2008- Manager at Shell station claims Mrs. Jones said "I don't want those white boys in our hood, this is ours". This manager can testify to the problems this organization has caused us.

06/2008- Greg Bowman meets with Mrs. Jones next door as she is one of the leaders of the neighbors who were against us. She asks "Make me an offer, and I can make all this all go away".

07/20/2008- Mark Smith terminated for intentionally causing spills, taking pictures, and calling the city about the spills he caused. Phone records show he used his CES phone to call the COH investigator (Naomi).

06/2008-12/2008- City of Houston harasses CES with false odor claims (literally hundreds only a few of which were legitimate), daily sampling of water to look for discharge violations. They

- a. In most cases the inspectors would come out, not find any odor, and give us an NOV anyway. In one instance I drove by Mark Shatt's house (the architect next door) and caught Leonardo Desussa (from the BACQ) taking fire code information. When questioned why someone from the BACQ was dealing with fire code issues, Mr. Desussa fled the scene. Mr. Desussa has been overly aggressive and interested in this case.
- b. Concerning wastewater discharge, The City usually tests facilities like ours on wastewater issues only 1-2 times/quarter. Bob Hunt, the former wastewater director for COH, was basically told to give City attorneys stuff to make a case against us even though he did not wish to do this. Bob recognized that CES is a good and honest company and was being strongly pressured politically.
- c. Violations from the city decreased drastically after the city had to notify CES prior to taking sample and CES began taking a split sample because we felt that the samples were being tampered with or showing false positives. Or someone was contaminating them.
- d. When questioned why one water inspector was testing just downstream from our test point he said he was told to do it by his supervisors because CES is a bad and dishonest company and cannot be trusted.

11/2008-02/2009- CES was inspected 50-100 times by the BACQ, and audited by 5 people from the TCEQ, 10 people from the EPA, OSHA, COH Fire Marshalls several times, many times by code inspectors.

**Note: This harassment was prior to any below legal cases were filed.**

- a. **These audits found some issues but by no means enough to give cause for the COH to sue CES and force a shut down injunction against CES.**
- b. **TCEQ inspectors were inspecting our tiny Houston facility for 5 days despite our tiny size. ...this was an unannounced multimedia inspection. This is extremely unusual and**

they admitted they were pushed by COH to do this. One inspector should be questioned as she took an especially high interest in the case and went out of her way to find violations (Sharari Rafati). In one instance she even called OSHA and made sure she was at CES to meet the lady when she showed up...this is extremely unusual!

- c. In at least one case, City inspectors from BACQ told a customer that were a bad company and that we were breaking all kinds of laws.
- d. EPA sent 10 people for an inspection only about 6 weeks after the TCEQ inspection. They were here for 3-4 days. This is very unusual and we are certain COH caused this.
- e. Fire inspectors were sent out. When one did not find anything, they would send another, then another, etc.
- f. Building code inspectors were sent out and when they found something, they would send another to find more, etc., etc.

12/06/08- Thermal Oxidizer over pressurizes making loud boom

- a. This event was very likely an equipment malfunction and not tampering.

12/16/08- Carbon scrubber over pressurized and blew off the lid throwing carbon and metal pieces out.

- a. News crews arrive within a min or 2 and before fire department
- b. We think this was tampering with equipment and set us up.
  - It just so happened during a MANDATORY meeting in the middle of the work day. This meeting was held more than 1 acre away from unit and all employees were required to attend. Nothing remotely flammable was being process through this unit due to the previous incident. Believe it was triggered to go off then so as not to cause injury.
  - This is the event which galvanized the press and the city to take action against us. It was not as big an issue as the oxidizer. The oxidizer occurrence alone was not going to cause the city to take action and got little press time.

12/18/008- Neighbors on Grace lane and the construction company with unfinished units on the other side of CES both file multimillion dollar lawsuits against CES. (2 separate suits)

- a. Mr. Hall, an ex city of Houston attorney takes the case pro bono. We are certain there was illegal contact between him and City attorneys during this time. We believe Karl was passing the information either directly through him or Quannel X.

12/19/08- Joey Sutter dies in Port Arthur plant

- a. Girlfriend said he looked sick that morning and begged him not to go to work
- b. Witness (Suzzie) said Joey didn't look good after climbing the trailer ladder.
- c. Witness (Suzzie) caught Joey before he opened the dome lid, was wearing a H2S monitor.

- Suzzie's monitor set at 10 PPM for H2S was not going off. She was less than 3 feet from him.
- d. See other attached information about tainted autopsy report.

Week of 12/22/2009- Karl Guidry has extensive talk with Judge Gillam for several hours.

- a. Just prior to this talk with the Judge, Ricky Brennan (African American), made claim that the dome lid was open when Joey was on top of the trailer.

Note: Suzzie was the only witness and only one around during the occurrence. Also, Ricky Brannon was at lunch when the incident occurred. It is plausible that Karl asked Ricky to say this so he could tell Judge Gillam that the dome lid was open so he could say that is what Ricky told him.

- b. After Karl met with Judge Gillam, Karl told Dan Bowman "This is a judge I can work with"
- c. Judge Gillam has multiple law suits himself in Jefferson County dating back to 1993 and almost 1 per year afterword.

Last Week of December 2008- Front door of CES left open for Quanell X to barge into with neighbors for channel 39 media.

- a. The night before Dan Bowman witnessed Karl and Ricky talking quietly in a vacant office. Karl asked Dan to come to his office to show him something on his computer. After leaving Karl's office Dan saw Ricky Brannon messing with the front door. Dan asked him why he was messing with the front door but didn't think it was necessary. Dan went back to his office to finish a document and Ricky sat up front until he left. He followed behind Dan until he left. The next day, Quanell X comes through the front door which is ALWAYS LOCK-ALL THE TIME.

12/30/08- City of Houston presses charges for nuisance violations and tries to get CES to agree to emit emissions below ambient levels in order to operate.

1/12/09- CES pays 109,000 to city of Houston to avoid more litigation cost, time, and effort. This settles the above case. City affectively extorts this money from CES. Talk with Matt Bowman about this and why they all of a sudden tried to settle with us.

01/06/2009- Ricky makes affidavit that EEOC case lawyer Melissa Moore offered him \$10,000 to arrange a meeting with Joey Sutter's parents. This affidavit was made to Karl Guidry, but the damage has been done in the press and may have influenced the autopsy report on Joey. This affidavit was kept confidential at CES.

2/11/09- We believe that Anthony (African American) fired shots on CES- Houston premises claiming he had been fired at by 2 African Americans who had climbed the fence and fired on him.

**2/13/09- Karl Guidry laid off** for financial downsizing. Several others of various races were also released for these reasons.

**02/13/09- Counterfeit Checks begin dated 2/13/09**

- a. No action has been taken by COH police dept. Over \$20,000 total in counterfeit checks.

2/20/09- More Counterfeit Checks (following Friday)

**Week of 04/04/09- Karl Guidry seen leaving Grace lane** ( Street where most of the people filing claims against CES live) and spoke with Loren Thomas and Joe Carrillo

- a. Claimed he was helping the neighbors out with "their problems"
- b. The people on Grace lane are trying to sue CES for over 30 million
- c. Asked Loren "Did you get your occupancy permits yet". Seemed surprised that it got done and approved. Permits were part of the settlement between CES and the City.

03/2009- Present- City visits by inspectors, officials, air quality, etc. decrease drastically since the departure of Karl.

A. 04/14/09- CES gets a mysterious call from unknown source and phone number stating that the Houston Lawyers are involved with Port Arthur and might be paying folks off to do things that favor their cases. Talk with Greg Bowman about this call.

B. 04/14/09- Brent Sittig has heart attack at plant and dies

- a. On the cell phone with another employee asking "what does a heart attack feel like?"
- b. I am sure the autopsy report will show it was work related as the first one did.
- c. See other attached documentation.

04/14/09- Judge Gilliam shows up at Port Arthur site after Brent's death threatening Suzzie to tell the truth about the dome lid. He was witnessed their by Bo Cumberland, Steve Stricker, Suzzie.

- a. Our attorneys later called the Judge and asked why he was there- He claimed he never went out there. We have several witnesses who claim he was and talked to them inquiring more about Joey Sutter.

02/2009-05/2009- Judge Gillam calls Suzzie on several occasions at her house to try to get her to change her story. "Tell the truth, I know the dome lid was open".

04/15/09- OSHA investigator gives Suzzie 24 hours to state that the dome lid was actually open when Joey Sutter passed out after climbing the trailer ladder.

05/11/09- Autopsy report released showing H2S as cause of death in Joey Sutter case based off 1 finding from a vial of blood 2 ½ months old. SEE ATTACHMENTS

- a. This test is not accurate after the first week as sulfides build up in body and body fluids during natural decomposition.
- b. See attached material

04/30/2009- Letter with no return address goes out to CES customers labeled Crime Report

- a. Letter lists CES first on list of companies and clearly the target.
- b. Karl told Dan Bowman in Feb 2009 that a letter of crime report would be the "next step", but it will show my name with a C instead of a K.
- c. Other companies on there were mentioned to through people off.

5/07/09- Anissa Write receives 2 sexually explicit phone calls on her CES CELL PHONE between 6:30 and 7:00. Her old number was 832-283-0831.

5/2009- Person tries to slip past the guard while distracting our security personnel.- May not be related to NUBF.

5/11/09- Judge Gillam and Port Arthur City Council member Beard make public statement that they would like to shut the plant down.

5/14/09 – Anissa Write receives 2 more sexually explicit phone calls on her CES CELL PHONE between 8-8:30. Someone threw a screw at her from Grace lane as she was leaving CES from work.

- a. Anissa has since changed her number.
- b. Believe this is because 1) she has been working on the EEOC cases. 2) because she is African American and a member of CES management. This doesn't help the EEOC cases in favor of plaintiff. Maybe a tactic to scare her off or get her to quit because CES has 4 African American members of management.

5/19/09- Port Arthur City Council has a closed meeting to consider legal action against CES.

- a. None of the investigations and findings are complete from OSHA.
- b. Autopsy report on Brent not complete.
- c. Autopsy on Joey Sutter has numerous inaccuracies.
- d. Confusing why a city would want to push forward legal action without having complete information and before investigations and autopsy reports came back.

5/21/09- a fraudulent call to the Port Arthur Health Department was made complaining of a horrible odor and possibly another death.

Note: CES was not processing anything this day.

**Theories on parties involved and possible motives- These are only our suspicions and may not all prove to be true.**

**\*\*\*\*\*Karl Guidry-**

-Believe him to be a racist against whites.

-Extremely deceiving individual who has extensive knowledge of law. He may have worked in a law office in the past. Probably knows the attorneys that represent the neighbors filing claims against CES. When you first meet him, he comes across like a religious, smart, family orientated, black man. However, he is extremely deceitful- Don't let him fool you. We caught him at his girlfriend's house during work hours (easy to hide from wife during working hours). Many of the issues that came up were in his job description to handle. Unfortunately, he was also our spokes person to our neighbors when they had problems. Don't think he ever worked in our favor. Also, he was put in charge of handling activities with the city- this may explain why we had so much problem with the city after he was hired. Also unfortunately, because his extensive knowledge of law, he was used to consult in legal matters often appearing to work in the company's favor. However, we believe he was sharing information with the opposition. If backed in a corner I am sure he would say he was whistle blowing. Believe he actually caused most of the major events or coordinated them, but would be hard to prove.

-Has lots of connections with City of Houston departments and officials. Including those in the Police department, sheriff's department, fire department, and most likely has contact with city council members as well as lawyer friends. This may be why the police have never helped us here in Houston. We also believe he has contact with Quanell X and Mr. Hill.

-Believe he used 2 CES employees to do his dirty work at CES-Mainly-Mark Smith and then Ricky Brannon. Believe he gave them instruction on what to do- Cause spills, make accusations, cause unrest, contact news, city officials, make complaints, etc. These individuals are ex-cons and could be quickly discounted by him if they got caught and told on him. In other words-who are you going to believe them or Karl.

-Think he fed the fire by telling and or lying to individuals about what they make vs others as he had access to and kept employee files.

-This individual is most likely active in or a silent member of National United Black Front.

-If he is a silent member they would use him to make campaign donations to possibly Sheila Jackson, Al Green, Houston city council members, etc. Maybe to get their support for activities that would help his legal cases.

**\*\*Note-** According to the Affidavit from Ricky Brannon- Al Green was at a NUBF meeting with Quanell X. (See Attachment).

**\*\*Also note** this affidavit was taken privately by KARL GUIDRY.

-More than likely knew the person who fraudulently made the checks. Although I don't think it was him, he knew who he gave his check to make these. He would be smart enough to make sure the checks were given to random individuals-maybe not. Think this was done not for his profit, but to damage CES.

-Said he has family in Louisiana in law enforcement that has access to FBI records on individuals.

### **Karl Cont.**

He would most likely collect his payments on legal cases via his small companies. Or by similar means that Quanell X uses. These would most likely look like legal transactions. These moneys might possibly even be funneled by churches active in the movement for services his companies provided them-maybe with one of small companies.

-May have made some kind of offer to Judge Gillam as both Karl and the Judge have filed discrimination lawsuits. Think he intentionally did a poor job on the investigation report for Joey Sutter's fatality. Also believe he told Judge Gillam things off the record that would cause damage to CES and may not have been factual. May have offered or put him in contact with people who might pay off the Judge to cause us problems. Again, these are only suspicions.

-Most likely actively consulting neighbors filing against CES about what they should claim is wrong with them, and may be actively seeking doctors to support these claims for Mr. Hill.

-May have caused similar issues while working at AES (Energy Company). Believe he took some of their records and stored them at his house and tried to black mail them with these. He claims he has proof that top shareholders took actions similar to Enron. When we discovered he filed the case against AES, we asked him about it. He said it really wasn't for racial discrimination, but for something else he could not press charges for. Or at least something he could not Blackmail them for if he made it public. Then he couldn't collect large sums of money.

-Money is the most important thing to Karl Guidry despite what he tries to get people to think.

-Although nothing could ever be proven on Karl- A very large number of people think he was involved in something to the detriment of CES. The individuals include Whites, African American, Hispanics.

### **Possible Motives for Karl**

**\*\*We think he is racist against whites and thinks he has been cheated- Hence his EEOC case with AES (Previous Employer).**

**\*\*Believe the primary motive was to make money from legal cases by "case hunting" while working at CES. Believe he wants to make cut of legal settlements on cases involving CES from Civil and EEOC attorneys. Also think he instigated things that prompted legal cases.**

**\*\*Always wanted to stick his nose in legal matters to find out current status. Unfortunately, his legal knowledge**

**\*\*Think he is and has been working with the attorneys on the civil cases against CES**

**\*\*Wanted to start his own waste water facility and tried to recruit people from CES to run it (Sam Brown was recruited). Also have witnesses that say he was doing work through Holcomb Environmental for work at the Port of Port Arthur. Said he could solidify business with a firm who wanted to do business with a minority owned company. Robert with GI Environmental said he was on site at their project with Mr. Holcomb removing oil from a barge. Robert was subcontracted because they needed his ship to shore coast guard permit. They asked him to leave after the water portion of the oily water was removed. Thousands of gallons of oil was removed and sold. He visited this work site while working for**

CES during work hours according to Robert from GI Environmental. Robert also claims Karl hit on his wife.

-Possibly hoping the civil cases will be awarded so much money that they take ownership of company assets for which he could later purchase at a discount with the agreement that he help them win money from us. This would achieve all his goals. Steal the company legally and get it at a discount.

#### **\*\*\*\*\*Attorneys in civil cases and EEOC cases**

-believe primarily Mr. Hill and EEOC case lawyer are trying to "create events" that help their case.

-might be making pay offs to individuals who could create events to help them win money.

-working with Karl and Mark on planning events that support their case.

#### **Mark Smith/Neighbors**

-Just want to make money off legal cases.

-Mark may also be getting paid by these attorneys to "create events" that could help their case. Mark has not had a job since his termination with CES and has been actively causing problems and stirring up trouble.

-member of the black panthers and his picture is on the web page for the organization. Also, made sure to be in the press pictures against CES.

#### **Quanell X/NUBF/Black Panthers**

-Quanell X, Mark Smith, Ricky Brannon-All ex cons- Organization full of and ran by criminals.

-Black Panthers/NUBF= Terrorist organization ran by criminals who have agendas against whites and think they should be compensated.

-Mr. Hill (Attorney for Houston site neighbors filing claims) has been Quanell's attorney on other legal matters in the past. Most notably the case against Quanell and the Houston Policeman Union which was settled out of court.

-Want to make money from legal cases, or extort money by other means.

**-Quanell X has no official job-how is he making his money???????**

-Gets most of his money through anonymous donations- may be getting some from some of our competitors (If true-most likely Merichem, US Oil Recovery)- Other competitors-Beeline, Intergulf, Liquid Environmental Solutions.

-Most likely funneling his money through Churches who pay him for services.

-Make payments for services through these churches so the money is more difficult to track. Would most likely make campaign contributions, payoffs, etc. in this manner as well.

-According to Ricky Brannon affidavit (See attached affidavit)- Quenelle X, an admitted former drug dealer, is still making money through narcotics sales.

NOTE: Quenell X is known to try and go after companies he thinks will pay him off to leave them alone. He uses allies in the media to do this. They like him because he makes news for them. Also, remember after the carbon scrubber over pressurized- the media showed up within a couple min.

**Other Things to Note:**

An African American College is being built less than 2 blocks from CES-Houston.

The plans for the Houston public transportation system show rail lines coming through MLK Blvd-Less than 1 block from CES-Houston.

Houston has no zoning laws.

CES-Houston/PACES-Port Arthur and partner Quantex-Canada -have plans, licenses, and are working on building a test reactor for Clean Coal technology at the Port Arthur site- (This is potentially a very profitable and successful endeavor).



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 6/19/2009

Dear **Control Room**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** HOU-3387

**Expiration Date** 6/19/2011

**Generator:** Noltex

**Address:** 12220 Strang Road (Attn: Randy Boeding)  
La Porte, TX 77571

### **Waste Information**

**Name of Waste:** Used oil - refrigerant

**TCEQ Waste Code #:** REC

**Container Type:**

**Detailed Description of Process Generating Waste:**

Used oil from manufacturing operations

**Color:** Dark brown to black      **Odor:** Hydrocarbon      **pH:** 6.0-9.0<100

**Physical State:**

**Incompatibilities:** Strong oxidizing agents

**Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001932



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

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Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001933



*HB/mm Recycle Houston*

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 ICLEI Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
--	---

**SECTION 1: Generator Information**

Company: Noltex L.L.C.  
 Address: 12220 Strang Road  
 City: La Porte State: TX Zip: 77571  
 Contact: L. Kristine Aparicio Title: ELIS&S - Manager  
 Phone Number: 281.842.5065 Fax Number: 281.842.5097  
 24/hr Phone Number: 281.842.5035  
 US EPA ID No: TXR000011106  
 State ID No: 84348 SIC Code: 2821, 2869

**SECTION 2: Billing Information -**☒ Same as Above

Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Title: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

**SECTION 3: General Description of the Waste**Name of Waste: Used Oil - refrigerant

Detailed Description of Process Generating Waste: \_\_\_\_\_

Used Oil from manufacturing operations

Physical State: ☒ Liquid ☐ Sludge ☐ Powder  
☐ Solid ☐ Filter Cake ☐ Combination

Color: dark brown to blackOdor: hydrocarbonSpecific Gravity (water=1): 0.8-0.9Density: 6.7-7.5 lbs/gal

Does this material contain any total phenolic compounds?

☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds?

☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF)

☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following.

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phaseContainer Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)Frequency: ☐ Weekly ☐ Monthly ☒ Yearly ☐ One-TimeQuantity: 50

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

☐ 0003 (Reactive)

L1 D009

1 | DO11

**Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)**

☐ Yes ☒ No

If "Yes", then please list ALL applicable codes:

1	1	Yes	1	✓	No
---	---	-----	---	---	----

If "Yes", then please list ALL applicable codes:

Recycle

Non RCRA/Non DOT Regulated Material (Used Oil)

NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>141		6.0-9.0		<100 mg/l		<10 mg/l		<2 %	
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	mg/l	NA	mg/l	NA	mg/l	NA	mg/l	NA	mg/l

#### **SECTION 4: Physical and Chemical Data**

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Material sampled on 04/23/2009 and analyzed on 4/21/2009.

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):

strong oxidizing agents

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED**

Based upon the following generator knowledge:

TCLP Metals: See attached analytical report

TCLP Volatiles: See attached analytical report

TCLP Semi-Volatiles: See attached analytical report

Reactivity: See attached analytical report

Corrosivity: See attached analytical report

Ignitability: See attached analytical report

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?

☐ YES ☒ NO

If "Yes", complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean out from organic, non petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/l  
Chromium: 8.9 mg/L  
Copper: 4.9 mg/l  
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory

- ☐ Metals Subcategory
- ☒ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10 Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CFS will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Date:

Printed Name/Title:

*Kristine Aparicio*  
**KRISTINE APARICIO, MGR-EHS**

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:

Date:

Approval Number:

☒ Approved☐ Rejected



PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$35/dmt trans + B.C.

2. Contamination Limit (maximum limit before surcharges apply):

Call Jay <sup>with</sup> if ~~any~~ questions

3. Surcharge Pricing:

4. Special Testing Requirements:

Chlor-d-test on composite sample, Black oil Blendability  
flash

5. Treatment and Handling Protocol:

Blend w/ Black oil

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable)**

--

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

Job Number: 600-9786-1

Job Description: Drums MO810194-003 & -009 4/23/09 TCLP

For:  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740  
Attention: Ms. Joy Snodgrass

*Neil A. Rodriguez*

Approved for release  
Neil A. Rodriguez  
Project Manager II  
5/7/2009 5:18 PM

---

Neil A Rodriguez  
Project Manager II  
neil.rodrique@lestamericainc.com  
05/07/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88 0759, I ADFQ 01967, OKDEO 9503, UT DOH GULF

TestAmerica Laboratories, Inc.  
TestAmerica Houston 6310 Rothway Street, Houston, TX 77040  
Tel (713) 690-4444 Fax (713) 690-5646 www.testamericainc.com



**SAMPLE SUMMARY**

Client: Noltex LLC

Job Number: 600-9786-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Client Matrix</u>	<u>Date/Time Sampled</u>	<u>Date/Time Received</u>
600-9786-1	Drum# M0810194-009	Waste	04/23/2009 0830	04/23/2009 1119
600-9786-2	Drum# M0810194-003	Waste	04/23/2009 0850	04/23/2009 1119

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-9786 1

Client Sample ID: Drum# M0810194-009  
Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830  
Date Received: 04/23/2009 1119  
Client Matrix: Waste

Analyte	Result/Qualifier		Unit	MDL	RI	Dilution
Method: TCLP-8260B				Date Analyzed:	04/27/2009	2121
Prep Method: 5030B				Date Prepared:	04/27/2009	2121
Benzene	22	U	ug/l	22	100	20
Carbon tetrachloride	22	U	ug/l	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/l	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/l	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate				Acceptance Limits		
4-Bromofluorobenzene	103		%		70 - 130	
Dibromofluoromethane	94		%		70 - 130	
Toluene-d8 (Surr)	109		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	85		%		70 - 130	
Method: TCLP-8270C				Date Analyzed:	04/28/2009	1946
Prep Method: 3510C				Date Prepared:	04/27/2009	1126
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/l	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	12	J	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachlorocyclopentadiene	1.2	U	ug/l	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/l	1.0	10	1.0
Surrogate				Acceptance Limits		
Phenol d6	40		%		10 - 94	
Nitrobenzene d5	80		%		35 - 114	
2-Fluorophenol	59		%		21 - 100	
2-Fluorobiphenyl	94		%		43 - 116	
2,4,6-Tribromophenol	95		%		10 - 123	
Terphenyl-d14	94		%		33 - 141	

Ms. Joy Snodgrass  
Nollex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-9786-1

Client Sample ID: Drum# M0810194-009  
Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830  
Date Received: 04/23/2009 1119  
Client Matrix: Waste

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed: 04/28/2009 1100		
Prep Method: 3010A			Date Prepared: 04/27/2009 1610		
Silver	0.0012 U	mg/L	0.0012	0.010	1.0
Arsenic	0.013 R	mg/l	0.0033	0.010	1.0
Barium	0.068 U	mg/l	0.0016	0.020	1.0
Cadmium	0.00073 U	mg/L	0.00073	0.0050	1.0
Chromium	0.0016 U	mg/L	0.0016	0.010	1.0
Lead	0.0029 U	mg/l	0.0029	0.010	1.0
Selenium	0.012 J R	mg/l	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed: 04/27/2009 1709		
Prep Method: 7470A			Date Prepared: 04/27/2009 1015		
Mercury	0.11 J R	ug/l	0.021	0.20	1.0
Method: 9012			Date Analyzed: 05/07/2009 1416		
Prep Method: 7.3.3			Date Prepared: 05/06/2009 1300		
Reactive Cyanide	18 U	ug/Kg	18	250	1.0
Method: 9034			Date Analyzed: 05/07/2009 1409		
Prep Method: 7.3.4			Date Prepared: 05/06/2009 1300		
Reactive Sulfide	40 J	mg/Kg	14	50	1.0

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number 600-9786-1

Client Sample ID: Drum# M0810194-009  
Lab Sample ID: 600-9786-1

Date Sampled: 04/23/2009 0830  
Date Received: 04/23/2009 1119  
Client Matrix: Waste

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 1010					
Flashpoint	>186	Degrees F	1.0	1.0	1.0
Method: D240-87					
BTU	19000	BTU/lb	500	500	1.0

Ms Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-9786-1

Client Sample ID: Drum# M0810194-003  
Lab Sample ID: 600-9786-2

Date Sampled: 04/23/2009 0850  
Date Received: 04/23/2009 1119  
Client Matrix: Waste

Analyte	Result/Qualifier	Unit	MUL	RL	Dilution
<b>Method: TCLP-8260B</b>					
<b>Prep Method: 5030B</b>					
			Date Analyzed:	04/27/2009 2145	
			Date Prepared:	04/27/2009 2145	
Benzene	22 U	ug/l	22	100	20
Carbon tetrachloride	22 U	ug/l	22	100	20
Chlorobenzene	18 U	ug/L	18	100	20
Chloroform	18 U	ug/L	18	100	20
1,2-Dichloroethane	22 U	ug/l	22	100	20
1,1-Dichloroethene	23 U	ug/L	23	100	20
2-Butanone (MEK)	32 U	ug/L	32	200	20
Tetrachloroethene	46 U	ug/L	46	100	20
Trichloroethene	26 U	ug/L	26	100	20
Vinyl chloride	32 U	ug/l	32	100	20
1,4-Dichlorobenzene	22 U	ug/L	22	100	20
Surrogate			Acceptance Limits		
4-Bromofluorobenzene	103	%		70 - 130	
Dibromofluoromethane	92	%		70 - 130	
Iodochlorobenzene (Surr)	109	%		70 - 130	
1,2-Dichloroethane d4 (Surr)	84	%		70 - 130	
<b>Method: TCLP-8270C</b>					
<b>Prep Method: 3510C</b>					
			Date Analyzed:	04/28/2009 2017	
			Date Prepared:	04/27/2009 1126	
1,4-Dichlorobenzene	1.3 U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95 U	ug/l	0.95	10	1.0
2,4,5-Trichlorophenol	1.3 U	ug/l	1.3	10	1.0
2,4,6-Trichlorophenol	0.92 U	ug/L	0.92	10	1.0
2-Methylphenol	1.0 U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9 U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90 U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1 U	ug/L	1.1	10	1.0
Hexachloroethane	1.2 U	ug/L	1.2	10	1.0
Nitrobenzene	1.2 U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89 U	ug/L	0.89	50	1.0
Pyridine	1.0 U	ug/l	1.0	10	1.0
Surrogate			Acceptance Limits		
Phenol-d6	30	%		10 - 94	
Nitrobenzene-d5	82	%		35 - 114	
2-Fluorophenol	58	%		21 - 100	
2-Fluorobiphenyl	88	%		43 - 116	
2,4,6-Tribromophenol	100	%		10 - 123	
Terphenyl-d14	86	%		33 - 141	

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number 600-9786-1

Client Sample ID: Drumm# M0810194-003  
Lab Sample ID: 600-9786-2

Date Sampled: 04/23/2009 0050  
Date Received: 04/23/2009 1119  
Client Matrix: Waste

Analyte	Result/Qualifier	Unit	MDL	KL	Dilution
<b>Method: TCLP-6010B</b>					
<b>Prep Method: 3010A</b>					
Silver	0.0012 U	mg/L	0.0012	0.010	1.0
Arsenic	0.0094 JB	mg/L	0.0033	0.010	1.0
Barium	0.077 B	mg/l	0.0016	0.020	1.0
Cadmium	0.00073 U	mg/l	0.00073	0.0050	1.0
Chromium	0.0016 U	mg/l	0.0016	0.010	1.0
Lead	0.0029 U	mg/L	0.0029	0.010	1.0
Selenium	0.013 JB	mg/L	0.0042	0.010	1.0
<b>Method: TCLP-7470A</b>					
<b>Prep Method: 7470A</b>					
Mercury	0.14 JB	ug/L	0.021	0.20	1.0
<b>Method: 9012</b>					
<b>Prep Method: 7.3.3</b>					
Reactive Cyanide	18 U	ug/Kg	18	250	1.0
<b>Method: 9034</b>					
<b>Prep Method: 7.3.4</b>					
Reactive Sulfide	30 J	mg/Kg	14	50	1.0

Ms. Joy Snodgrass  
Noltox LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600 9786 1

Client Sample ID: Drum# M0810194-003  
Lab Sample ID: 600-9786-2

Date Sampled 04/23/2009 0050  
Date Received 04/23/2009 1119  
Client Matrix Waste

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 1010					
Flashpoint	>186				
Method: D240-87					
RTU	21000	BTU/lb	500	500	1.0

Date Analyzed: 04/27/2009 1810

Degress F 1.0 1.0 1.0

Date Analyzed: 04/29/2009 1645

BTU/lb 500 500 1.0

## METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-9/86-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Waste</b>			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030D
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Ignitability, Pensky Martens Closed Cup Method	TAL HOU	SW846 1010	
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Sulfide, Acid Soluble and Insoluble (Titrimetric)	TAL HOU	SW846 9034	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Heat of Combustion	TAL HOU	ASTM D240-87	

## Lab References:

TAL HOU TestAmerica Houston

## Method References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates

## METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-9786-1

Method	Analyst	Analyst ID
SW846 8200B	Liu, Zailang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 0010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
SW846 1010	Puranik, Surendra U	SUP
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9034	Walker, Gerald (Gerry) C	GCW
ASTM D240-87	Puranik, Surendra U	SUP

## **QUALITY CONTROL RESULTS**

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

TCLP SPLPE Leachate Blank - Batch: 600-14163

Method: 8260B

Preparation: 5030B

TCLP

Lab Sample ID: LB 600-13999/1 A  
 Client Matrix: Waste  
 Dilution: 1.0  
 Date Analyzed: 04/27/2009 1628  
 Date Prepared: 04/27/2009 1628  
 Date Leached: 04/24/2009 1500

Analysis Batch: 600-14163  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: VOA-V  
 Lab File ID: 111706.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Leachate Batch: 600-13999

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	70 - 130
Dibromofluoromethane	93	70 - 130
Toluene d8 (Sum)	109	70 - 130
1,2-Dichloroethane-d4 (Sum)	84	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Method Blank - Batch: 600-14163

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-14163/3  
 Chem Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 04/27/2009 1717  
 Date Prepared: 04/27/2009 1717

Analysis Batch: 600-14163  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: VOA-V  
 Lab File ID: 1111700.D  
 Initial Weight/Volume: 5 mL  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	102	70 - 130
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	110	70 - 130
1,2-Dichloroethane-d4 (Surr)	83	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results

## Quality Control Results

Client: Noltex LLC

Job Number: 600 9786 1

Lab Control Sample - Batch: 600-14163

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 600-14163/1

Analysis Batch: 600 14163

Instrument ID: VOA-V

Client Matrix: Water

Prep Batch: N/A

Lab File ID: H11703.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 ml

Date Analyzed: 04/27/2009 1450

Final Weight/Volume: 5 ml

Date Prepared: 04/27/2009 1450

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	46.0	92	69 - 124	
Carbon tetrachloride	50.0	43.0	86	57 - 134	
Chlorobenzene	50.0	48.0	96	70 - 129	
Chloroform	50.0	48.2	96	69 - 128	
1,2-Dichloroethane	50.0	44.5	89	65 - 134	
1,1-Dichloroethene	50.0	45.1	90	45 - 136	
2-Butanone (MEK)	100	111	111	53 - 140	
Tetrachloroethene	50.0	52.0	106	59 - 134	
Trichloroethene	50.0	45.3	91	68 - 130	
Vinyl chloride	50.0	46.4	93	38 - 153	
1,4-Dichlorobenzene	50.0	45.1	90	72 - 131	
Surrogate		% Rec.		Acceptance Limits	
4-Bromofluorobenzene		91		70 - 130	
Dibromofluoromethane		96		70 - 130	
Toluene-d8 (Surr)		98		70 - 130	
1,2-Dichloroethane d4 (Surr)		87		70 - 130	

Calculations are performed before rounding to avoid round off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Method Blank - Batch: 600-14019

Method: 8270C

Preparation: 3510C

Lab Sample ID: MB 600-14019/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 04/28/2009 11:42  
 Date Prepared: 04/27/2009 11:26

Analysis Batch: 600-14145  
 Prep Batch: 600-14019  
 Units: ug/L

Instrument ID: MSD2348  
 Lab File ID: 20428904.D  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 1.00 mL  
 Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,1-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	30
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	41	10 - 94
Nitrobenzene-d5	78	35 - 114
2-Fluorophenol	60	21 - 100
2-Fluorobiphenyl	89	43 - 116
2,4,6-Tribromophenol	91	10 - 123
Terphenyl-d14	90	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

TCLP SPLPE Leachate Blank - Batch: 600-14019

Method: 8270C

Preparation: 3510C

TCLP

Lab Sample ID: 1 B 600 13990/1 C  
 Client Matrix: Waste  
 Dilution: 10  
 Date Analyzed: 04/20/2009 1915  
 Date Prepared: 04/27/2009 1126  
 Date Leached: 04/24/2009 1430

Analysis Batch: 600 14145  
 Prep Batch: 600-14019  
 Units: ug/L

Leachate Batch: 600-13990

Instrument ID: MSL2348  
 Lab File ID: Z0428907.D  
 Initial Weight/Volume: 1005 mL  
 Final Weight/Volume: 1.00 mL  
 Injection Volume: 1.0 ul

Analyte	Result	Qual	MDL	RI
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,6-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2 Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachlorocyclopentadiene	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	35	10 - 94
Nitrobenzene-d5	86	35 - 114
2-Fluorophenol	56	21 - 100
2-Fluorobiphenyl	92	43 - 110
2,4,6-Trichlorophenol	92	10 - 123
Terphenyl-d14	93	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 600-14019

Method: 8270C

Preparation: 3510C

LCS Lab Sample ID: LCS 600-14019/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 04/28/2009 1813  
 Date Prepared: 04/27/2009 1126

Analysis Batch: 600-14145  
 Prep Batch: 600-14019  
 Units: ug/L

Instrument ID: MSD2348  
 Lab File ID: Z0428905.D  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 1.00 mL  
 Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-14019/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 04/28/2009 1844  
 Date Prepared: 04/27/2009 1126

Analysis Batch: 600-14145  
 Prep Batch: 600-14019  
 Units: ug/L

Instrument ID: MSD2348  
 Lab File ID: Z0428906.D  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 1.00 mL  
 Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
2,4,5-Trichlorophenol	90	91	59 - 123	2	20		
2,4,6-Trichlorophenol	90	94	30 - 143	5	20		
2-Methylphenol	73	76	34 - 109	5	20		
3 & 4 Methylphenol	74	78	27 - 113	5	20		
Hexachlorobenzene	95	101	62 - 121	5	20		
Hexachlorobutadiene	92	90	32 - 143	2	20		
Hexachloroethane	86	87	42 - 110	2	20		
Nitrobenzene	82	81	55 - 115	0	20		
Pentachlorophenol	83	101	44 - 142	9	20	J	
Pyridine	51	42	10 - 109	19	40		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Phenol d6	30		43		10 - 94		
Nitrobenzene-d5	83		81		35 - 114		
2-Fluorophenol	59		61		21 - 100		
2-Fluorobiphenyl	91		87		43 - 116		
2,4,6-Tribromophenol	96		97		10 - 123		
Terphenyl-d14	88		89		33 - 141		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Method Blank - Batch: 600-14047

Method: 6010B  
Preparation: 3010ALab Sample ID: MB 600-14047/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/28/2009 1008  
Date Prepared: 04/27/2009 1610Analysis Batch: 600-14070  
Prep Batch: 600-14047  
Units: mg/LInstrument ID: TJA ICP 61E  
Lab File ID: T042809  
Initial Weight/Volume: 50 ml  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Silver	0.0012	U	0.0012	0.010
Arsenic	0.0033	U	0.0033	0.010
Barium	0.0016	U	0.0016	0.020
Cadmium	0.00073	U	0.00073	0.0050
Chromium	0.0016	U	0.0016	0.010
Lead	0.0029	U	0.0029	0.010
Selenium	0.0042	U	0.0042	0.040

## TCLP SPLPE Leachate Blank - Batch: 600-14047

Method: 6010B  
Preparation: 3010A  
TCLPLab Sample ID: LB 600-13990/1-D  
Client Matrix: Waste  
Dilution: 1.0  
Date Analyzed: 04/28/2009 1030  
Date Prepared: 04/27/2009 1610  
Date Leached: 04/24/2009 1430Analysis Batch: 600-14070  
Prep Batch: 600-14047  
Units: mg/LInstrument ID: TJA ICP 61E  
Lab File ID: T042809  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-13990

Analyte	Result	Qual	MDL	RL
Silver	0.0012	U	0.0012	0.010
Arsenic	0.013		0.0033	0.010
Barium	0.059		0.0016	0.020
Cadmium	0.00073	U	0.00073	0.0050
Chromium	0.0016	U	0.0016	0.010
Lead	0.0029	U	0.0029	0.010
Selenium	0.014	J	0.0042	0.040

Calculations are performed before rounding to avoid round off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Lab Control Sample - Batch: 600-14047

Method: 6010B

Preparation: 3010A

Lab Sample ID: LCS 600-14047/2 A  
Client Matrix: Water  
Dilution: 10  
Date Analyzed: 04/28/2009 1012  
Date Prepared: 04/27/2009 1010

Analysis Batch: 600-14070  
Prep Batch: 600-14047  
Units: mg/L

Instrument ID: LJA ICP 6 IF  
Lab File ID: T042009  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	0.500	0.507	101	80 - 120	
Arsenic	1.00	1.03	103	80 - 120	
Barium	1.00	1.04	104	80 - 120	
Cadmium	0.500	0.516	103	80 - 120	
Chromium	1.00	1.02	102	80 - 120	
Lead	1.00	1.05	105	80 - 120	
Selenium	1.00	1.02	102	80 - 120	

Calculations are performed before rounding to avoid round off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Method Blank - Batch: 600-14003

Method: 7470A  
Preparation: 7470ALab Sample ID: MD 600-14003/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/27/2009 1632  
Date Prepared: 04/27/2009 1015Analysis Batch: 600-14051  
Prep Batch: 600-14003  
Units: ug/lInstrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDI	RL
Mercury	0.10	J	0.021	0.20

## TCLP SPLPE Leachate Blank - Batch: 600-14003

Method: 7470A  
Preparation: 7470A  
TCLPLab Sample ID: LB 600-13990/1-B  
Client Matrix: Waste  
Dilution: 1.0  
Date Analyzed: 04/27/2009 1655  
Date Prepared: 04/27/2009 1015  
Date Leached: 04/24/2009 1430Analysis Batch: 600-14051  
Prep Batch: 600-14003  
Units: ug/L  
Leachate Batch: 600-13990Instrument ID: Perkin Elmer FIMS 100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDI	RL
Mercury	0.094	J	0.021	0.20

## Lab Control Sample - Batch: 600-14003

Method: 7470A  
Preparation: 7470ALab Sample ID: LCS 600-14003/8-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 04/27/2009 1634  
Date Prepared: 04/27/2009 1015Analysis Batch: 600-14051  
Prep Batch: 600-14003  
Units: ug/lInstrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec	Limit	Qual
Mercury	3.00	2.78	93	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Method Blank - Batch: 600-14055

Method: 1010  
Preparation: N/ALab Sample ID: MB 600-14055/1  
Client Matrix: Waste  
Dilution: 1.0  
Date Analyzed: 04/27/2009 1810  
Date Prepared: N/AAnalysis Batch: 600-14055  
Prep Batch: N/A  
Units: Degrees FInstrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

## Lab Control Sample - Batch: 600-14055

Method: 1010  
Preparation: N/ALab Sample ID: LCS 600-14055/2  
Client Matrix: Waste  
Dilution: 1.0  
Date Analyzed: 04/27/2009 1810  
Date Prepared: N/AAnalysis Batch: 600-14055  
Prep Batch: N/A  
Units: Degrees FInstrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

## Matrix Spike - Batch: 600-14529

Method: 9012  
Preparation: 7.3.3Lab Sample ID: 600-9786-1  
Client Matrix: Waste  
Dilution: 20  
Date Analyzed: 05/07/2009 1416  
Date Prepared: 05/06/2009 1300Analysis Batch: 600-14640  
Prep Batch: 600-14529  
Units: ug/KgInstrument ID: WC05 Lachat 1  
Lab File ID: N/A  
Initial Weight/Volume: 10 g  
Final Weight/Volume: 250 ml

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Reactive Cyanide	18 U	1000000	41800	4	0 - 100	

## Duplicate - Batch: 600-14529

Method: 9012  
Preparation: 7.3.3Lab Sample ID: 600-9786-1  
Client Matrix: Waste  
Dilution: 1.0  
Date Analyzed: 05/07/2009 1416  
Date Prepared: 05/06/2009 1300Analysis Batch: 600-14640  
Prep Batch: 600-14529  
Units: ug/KgInstrument ID: WC05 Lachat 1  
Lab File ID: N/A  
Initial Weight/Volume: 10 g  
Final Weight/Volume: 250 ml

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Reactive Cyanide	18 U	18	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600 9786-1

## Method Blank - Batch: 600-14529

Method: 9034  
Preparation: 7.3.4

Lab Sample ID: MB 600-14529/1-A  
 Client Matrix: Waste  
 Dilution: 1.0  
 Date Analyzed: 05/07/2009 1400  
 Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638  
 Prep Batch: 600-14529  
 Units: mg/Kg

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Reactive Sulfide	14	U	14	50

## Lab Control Sample - Batch: 600-14529

Method: 9034  
Preparation: 7.3.4

Lab Sample ID: LCS 600 14529/2 A  
 Client Matrix: Waste  
 Dilution: 1.0  
 Date Analyzed: 05/07/2009 1409  
 Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638  
 Prep Batch: 600 14529  
 Units: mg/Kg

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec	Limit	Qual
Reactive Sulfide	1840	910	49	0 - 100	

## Matrix Spike - Batch: 600-14529

Method: 9034  
Preparation: 7.3.4

Lab Sample ID: 600-9786 1  
 Client Matrix: Waste  
 Dilution: 1.0  
 Date Analyzed: 05/07/2009 1409  
 Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638  
 Prep Batch: 600 14529  
 Units: mg/Kg

Instrument ID: No Equipment Assigned  
 Lab File ID: N/A  
 Initial Weight/Volume: 10 g  
 Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec	Limit	Qual
Reactive Sulfide	40 J	1840	970	51	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Duplicate - Batch: 600-14529

Method: 9034

Preparation: 7.3.4

Lab Sample ID: 600-9786-1  
Client Matrix: Waste  
Dilution: 1.0  
Date Analyzed: 05/07/2009 1409  
Date Prepared: 05/06/2009 1300

Analysis Batch: 600-14638  
Prep Batch: 600-14529  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 g  
Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Reactive Sulfide	40 J	30.0	29	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-9786-1

Lab Control Sample - Batch: 600-14223

Method: D240-87  
Preparation: N/A

Lab Sample ID: LCS 600-14223/1

Client Matrix: Waste

Dilution: 1.0

Date Analyzed: 04/29/2009 1645

Date Prepared: N/A

Analysis Batch: 600-14223

Prep Batch: N/A

Units: BTU/lb

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: 0.9959 g

Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11100	98	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results

## DATA REPORTING QUALIFIERS

LC

Job Number: 600-9786 1

Qualifier	Description
-----------	-------------

U	Indicates the analyte was analyzed for but not detected.
---	--

A

U	Indicates the analyte was analyzed for but not detected.
---	--

J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
---	--

H	Compound was found in the blank and sample.
---	---

U	Indicates the analyte was analyzed for but not detected.
---	--

J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
---	--

Y

U	Indicates the analyte was analyzed for but not detected.
---	--

J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
---	--

on

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY RECORD

Lot: 600

9786

#2

Page: 1 of 1

TestAmerica Laboratories, Inc.

Customer Information		Project Information		Analysis/Methods																	
PO:		Project Name:	Waste Disposal	A	TCLP-Volatiles (8260)															K	
WC:		TAL Project No:	6000463	B	TCLP-Semi-volatiles (5270)															L	
Company:	Noltex, LLC	Bill To:	Noltex, LLC	C	TCLP-Metals (6310/7470)															M	
Report to:	Joy Snodgrass	Invoice ATTN:	Joy Snodgrass	D	RC															N	
Address:	12220 Strang Road La Porte, TX 77571-9740	Address:	12220 Strang Road La Porte, TX 77571-9740	E	BTUs															O	
E-mail:	Joy_Snodgrass@noltex.com		Joy_Snodgrass@noltex.com	F																P	
Phone:	281-842-5039	Phone:	281-842-5039	G																Q	
Fax:	281-842-5097	Fax:	281-842-5097	H																R	
				I																Other:	
				J																	

No.	Sample Description	Preservation	Date	Time	Matrix	# Cont.	Comments	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		NONE			Waste	2		X	X	X	X	X													
2	Drum # N42194-119	NONE	4/23/09	8:30	WASTE	1		X	X	X	X	X													
3	Drum # N42194-119	NONE	4/23/09	8:50	WASTE	1		X	X	X	X	X													
4																									
5																									
6																									
7																									
8																									

Sampler:		Shipmen: Method: TAL Pickup		Required TAT: 24-h 48-h 72-h 5 Days 10 Days Other:	
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:
Joy Snodgrass	4/23/09	Neil Rodriguez	4-23-09	Joy Snodgrass	4-23-09
Company:	Time:	Company:	Time:	Company:	Time:
Noltex	10:25AM	TA	10:25	TA	11:19
5. Relinquished by:	Date:	6. Received by:	Date:	7. Relinquished by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:

Comments/Notes:	
05/09	

TestAmerica Laboratories  
TAL Project Manager:

5310 Rothway Drive, Suite 130  
Neil Rodriguez 713-358-2006

Houston, TX 77040

Phone: 713.590.4444

Fax: 713.590.5546

EPAHQ082001966

JUN-18-2009 12:44 From: NOLTEX

2818425097

To: 7137488664

P.32/36

## Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 800-9786-1

Login Number: 978G

List Source: TestAmerica Houston

Creator: Clarke, Michael (Mike) C

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
There are no discrepancies between the sample IDs on the containers and the COC	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used	True	
Sample bottles are completely filled	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphase samples are not present	True	
Samples do not require splitting or compositing.	True	

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

Job Number: 600-9786-2

SDG Number:

Job Description: Supplemental Report MO810194-003 & -009

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

*Neil A. Rodriguez*

Approved for Release  
Neil A. Rodriguez  
Project Manager II  
5/29/2009 2:53 PM

Neil A Rodriguez

Project Manager II

neil.rodriguez@testamericainc.com

05/29/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager

TestAmerica Houston Certifications and Approvals: TX NELAP T104/04223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

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**Job Narrative**  
**600-J9786-2**

**Comments**

Supplemental report, subcontracted corrosivity analysis report is attached.

# Certificate of Analysis

SINCE 1995

Quality Controlled Through Analysis

10830 RALLSTONE RD. FORT WORTH, TEXAS 76155  
F.O. BOX 741903 DALLAS, TEXAS 75271

TEL: (281) 495-2400

FAX: (281) 495-2410

Test America  
Multiple Samples

NO: 55013 R

REQUESTED BY:

Mr. Neil Rodriguez

REPORT DATE:

May 29, 2009

PURCHASE ORDER NO:

Pending

## RESULT

Sample ID.	pH of Water Extractions of Halogenated Organic Solvents and Their Admixtures. ASTM D 2110
9785-1 (Drum # M0810194-009)	6.78
9786-2 (Drum # M0810194-003)	6.63

mitted  
TECH LABORATORIES, L.P.

sh  
tory Operations

These analyses, opinions or interpretations are based on materials supplied by the client. We do not make any  
warranty exclusive and non-damable use this report is made. Texas Object Laboratories, Inc. and its owners  
assume no responsibility and make no warranty for proper operations of any petroleum, oil, gas or any  
other material in connection with which this report is used or relied on.

Page 1 of 1

ANAB  
MODDY  
05/29/2009

EPAHO082001970



**CES Environmental  
Services, Inc.**

## JOB INFORMATION PROFILE

Folder ID : **KMCO, Inc. (KMCO - Crosby, TX)  
Trans Only**

Customer : KMCO, Inc.

Address : 16503 Ramsey Rd.

City, State, Zip : Crosby TX , 77532

CES Contact : ( ) -

Driver : Abreu, Wilfrido

Helper : 599

Date : 6/22/2009

Time : 0430

Truck # 289

Trailer # 256

### Job Description :

Be onsite at 6am - if you are going to be late call Jenny @ 713-367-8581

Onsite Contact: Jerry Diese @ 713-906-4934 or Bill Glushko @ (281) 635-1114

1. Load non haz Distillation Bottoms as directed by Jerry Deise
2. Haul load to Newpark and offload

\*\*\*\*KMCO will provide the MANIFEST

ID #: 87854

#### CUSTOMER INFORMATION

##### OPERATION HOURS:

Open :	06:00 AM
Close:	05:00 PM

##### SHIPPING/RECEIVING CONTACT:

Name:	Bill Glushko
Number:	(281) 635-1114

##### AFTER HOURS CONTACT:

Name:	Bill Glushko
Number:	(281) 635-1114

#### RECEIVING INFORMATION

##### OPERATION HOURS:

Open :	07:00 AM
Close:	05:00 PM

##### SHIPPING/RECEIVING CONTACT:

Name:	Cliff Hardy
Number:	(409) 794-3119

##### AFTER HOURS CONTACT:

Name:	Cliff Hardy
Number:	(409) 794-3119

##### PURCHASE ORDER NUMBER REQUIRED:

☒ YES ☐ NO

IF YES, P.O. #:

116802

##### PPE REQUIRED:

☒ YES ☐ NO

IF YES, WHAT?

Hard Hat, Safety Glasses

##### HACSC REQUIRED:

☐ YES ☒ NO

IF YES, WHAT?

##### CAN CUSTOMER LOAD US :

☐ YES ☒ NO

##### WASHOUT ANTICIPATED:

☐ YES ☒ NO

##### ROPPER PUMP:

☐ YES ☒ NO

##### BOX LINER REQUIRED

☐ YES ☒ NO

##### LOADING/UNLOADING TRAILER TYPE:

☐ REAR ☐ BELLY  
☒ DOES NOT MATTER

##### BOX NUMBER:

##### CES OWNS BOX:

☐ YES ☐ NO

##### CUSTOMER OWNS BOX:

☐ YES ☐ NO

##### CES RENTED BOX:

☐ YES ☐ NO

##### CUSTOMER RENTED BOX:

☐ YES ☐ NO

EPAHO082001971

**FEDED:** ?  
**SIZE:** ?  
**Tank):** Tank  
**FITTING:** ?  
**FITTING:** ?

**DRUM DOLLY NEEDED:** ☐ YES ☒ NO

**PALLET JACK NEEDED:** ☐ YES ☒ NO

**CAN CUSTOMER LOAD WITH FORKLIFT** ☐ YES ☒ NO

*Note: Pallets are only good if they drive the forklift into the trailer. Otherwise, it is a huge and painful experience for the driver. If pallets are used, then the drums must be shrink wrapped.*

**DRK**

**li** ☐ YES ☒ NO **IF YES, HOW MANY?**

**ED:**



CES Environmental  
Services, Inc.

## Vehicle Inspection Report, Truck

Date: \_\_\_\_\_

Unit #: \_\_\_\_\_

Driver: \_\_\_\_\_

Beginning Miles: \_\_\_\_\_

Ending Miles: \_\_\_\_\_

Location: \_\_\_\_\_

Pre	Post		Pre	Post		Pre	Post	
		Motor Oil			Hydraulic Oil			Transmission
		Coolant			Fuel			Windshield Washer

Pre Post

**No Defects Noted**

*If items needs repaired, check below and provide information in the comment section.*

Pre	Post		Pre	Post		Pre	Post	
		All gauges and interior lights			Horn			4" to 3"
		Low air buzzer and warning light			Windshield Wipers			3" to 2"
		Registration and Insurance			Seat			3" Double Male
		Windshield free of cracks			Seat Belts			2" Double Male
		Heat/Defroster and A/C			Clutch Free Play At Least 1/2"			3" Double Female
		Door latches			Radio			2" Double Female
		Mirrors			Interior is Clean			
		Fire Extinguisher			Warning Triangles			

Pre	Post		Pre	Post		Pre	Post	
		Service Brake			Exhaust System			Fifth Wheel
		Parking Brake			Suspension			Fifth Wheel Latch
		Drain Air Tanks			Steering			Pogo Stick
		Air System, Audible Leaks			Fuel Tanks and Lines			Trailer Light Plug and Cord
		Headlights			Hydraulic Lines/Tank			Trailer Air Lines
		Marker Lights			Motor			Glad Hands
		Brake Lights			Transmission			Fenders
		Hazard and Turn Signals			Rear End/Drive Line			Mudflaps
		Body Damage			Wheels/Rims			
		Radiator/Coolant Leaks			Tires			

Comments

Above defects have been corrected

Above defects need not be corrected for the safe operation of the vehicle.

Mechanic Comments

Driver's Signature

Date

Mechanic's Signature

Date

Driver's Review Signature

Date

EPAHO082001973



**CES Environmental  
Services, Inc.**

**Vehicle Inspection Report, Trailer**

Unit #:

Driver:

**Noted**

*check below and provide information in the comment section.*

	Pre	Post		Pre	Post	
			Trailer Floor			Trailer Dolly
			Fenders			Suspension
id Insurance			Mudflaps			Frame and Cross Members
			Rear Doors and Latches			King Pin
			Trailer Floor			Trailer Light Plug
udible Leaks			Tarp and Straps			Body Damage
			Winch Cable			Valve's and Coupler's
n Signals			Winch Cylinders			Placard Holder
			Tie Downs			Ladder
s			Hydraulic Lines/Tank			Mudflaps
			Roll Off Controls			Emergency Shut Off
Oil Level			Hub Oil Level			Commercial Inspection
						Tank Test/Inspections Current

been corrected

not be corrected for the safe operation of the vehicle.

**Mechanic Comments**

Date

Date

Date



**CES Environmental  
Services, Inc.**

## JOB INFORMATION PROFILE

**Folder ID :** Socotherm La Barge, LLC (Shields St-Channelview)  
Nonhaz Wastewater

**Customer :** Socotherm LaBarge, LLC

**Driver :** Abreu, Wilfrido

**Address :** 817 Shields

**Helper :**

**City,State,Zip :** Channelview TX , 77530

**Date :** 6/22/2009

**Time :** 2nd

**CES Contact :** ( ) -

**Truck #** 289

**Trailer #** 256

### Job Description :

WEIGH LIGHT AND HEAVY @ A-1 SCALES if OPEN  
or LOVE'S on McCarty(you will be reimbursed, if it's a weekend)

\*\*\*scale tickets a MUST(make sure there is a copy of BOTH light and heavy weights for this load or cannot be billed)

SITE CONTACT: Ben 281-594-6635

NEED 80' OF HOSE

- 1) Contact Ben PRIOR to pumping out WASTEWATER or pre-mixing
- 2) build air pressure in your trailer, so you're able to blow air into the tank for mixing before 1st pH reading (unless otherwise instructed by Ben)
- 3) if needed, socotherm will add caustic to adjust pH
- 4) once pH reading is between 3-9, vac out a full load of wastewater
- 3) Haul load to CES and offload

contact morgan w/ any problems 281-691-3296

**ID #:** 87942

#### CUSTOMER INFORMATION

##### OPERATION HOURS:

##### SHIPPING/RECEIVING CONTACT:

##### AFTER HOURS CONTACT:

<b>Open :</b>	07:00 AM
<b>Close:</b>	03:00 PM

<b>Name:</b>	Ben
<b>Number:</b>	(281) 594-6635

<b>Name:</b>	Jose
<b>Number:</b>	(713) 519-7975

#### RECEIVING INFORMATION

##### OPERATION HOURS:

##### SHIPPING/RECEIVING CONTACT:

##### AFTER HOURS CONTACT:

<b>Open :</b>	
<b>Close:</b>	

<b>Name:</b>	CES
<b>Number:</b>	

<b>Name:</b>	
<b>Number:</b>	

##### PURCHASE ORDER NUMBER REQUIRED:

☐ YES ☐ NO

**IF YES, P.O. #:**

##### PPE REQUIRED:

☒ YES ☐ NO

##### HACSC REQUIRED:

☐ YES ☒ NO

EPAHO082001975

EPAHQ0082001976



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 7/14/2009

Dear Nelson Fetgatter

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** HOU-3423

**Expiration Date** 7/14/2011

**Generator:** Bioselect Fuels, Inc  
**Address:** 4800 Old Port Industrial Rd  
Galveston, TX

### Waste Information

**Name of Waste:** Used BioDiesel Filters

**TCEQ Waste Code #:** Recycle

**Container Type:** 25 yd. box

**Detailed Description of Process Generating Waste:**

Filters were used to filter the biodiesel from tank #1 to tank #2

**Color:** Yellowish

**Odor:** Mild

**pH:** Na

**Physical State:**

**Incompatibilities:** See MSDS

**Safety Related Data/Special Handling:**

PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001977

**CES Environmental  
Services, Inc.**

4904 Griggs Road Houston, TX 77021  
Phone: (713) 676-1460 Fax: (713) 676-1676  
<http://www.cesenvironmental.com>

TCEQ Industrial Solid Waste Permit No: 30948  
U.S. EPA ID No: TXD008950461 ISWR No: 30900

40 /mm  
Recycle  
Houston

**SECTION 1: Generator Information**

Company: BioSelect (Galveston Bay BioDiesel)  
Address: 4828 Old Port Industrial Road  
City, State, Zip: Galveston, Texas 77554  
Contact: Steve Sams Title: Auth. Broker For Generator  
Phone No: 281-838-3400 Fax No: 281-424-7748  
24/hr Phone: 281-838-3400  
U.S. EPA I.D. No: TXR000079137  
State I.D. 88510 SIC Code:

**SECTION 2: Billing Information - ☐ Same as Above**

Company: Phoenix Pollution Control & Environmental Services, Inc.  
Address: 4808 Fairmont Parkway #274  
City, State, Zip: Pasadena, Texas 77505  
Contact: Connie Fetgatter Title: Accounting  
Phone No: 281-838-3400 Fax No: 281-424-7748

**SECTION 3: General Description of the Waste**Name of Waste: Used BioDiesel FiltersDetailed Description of Process Generating Waste: Filters were used to filter the biodiesel from tank #1 to tank #2.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

Color: YellowishOdor: MildSpecific Gravity (water=1): N/ADensity: N/A lbs/galDoes this material contain any total phenolic compounds? ☐ Yes ☒ NoDoes this material contain any para substituted phenolic compounds? ☐ Yes ☒ NoLayers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)  
Container Size: 25 Yd. Box

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ YearlyNumber of Units (containers): 3 Other:       Texas State Waste Code No:       Proper U.S. DOT Shipping Name: RecycleClass: NAUN/NA: NAPG: NARQ: NAUsed Filters Non RCRA / Non DOT Regulated Material (Oil Filter)

Flash Point N/A	pH N/A	Reactive Sulfides N/Amg/l	Reactive Cyanides N/Amg/l	Solids 100%
Oil & Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

**SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Filters		100%

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

PPE

MSDS

**SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

PPE

see MSDS

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X  
 TCLP Volatiles: X  
 TCLP Semi-Volatiles: X  
 Reactivity: X  
 Corrosivity: X  
 Ignitability: X

**SECTION 9: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: 7/14/09

Printed Name/Title: \_\_\_\_\_

STEVE SIMS / AUTH. BACKER FOR GENERATOR.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

7-14-09

(Approved)

Rejected

Approval Number: \_\_\_\_\_

**SECTION 10: Waste Receipt Classification Under 40 CFR 437**

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

**PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.**

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L  
Chromium: 8.9 mg/L  
Copper: 4.9 mg/L  
Nickel: 37.5 mg/L

- (3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**PROCESS FACILITY INFORMATION (CES USE ONLY!!)****1. Base Pricing (including freight):**

\$ 95/yard

**2. Contamination Limits (maximum limit before surcharges apply):****3. Surcharge Pricing:****4. Special Testing Requirements:****5. Treatment and Handling Protocol:**

Take to Oily Filters Disposal facility

**6. Treated Wastewater Discharge Subcategory:**

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C

**PROCESS FACILITY INFORMATION (CES USE ONLY!!)****7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable):**

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## **MATERIAL SAFETY DATA SHEET**

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

#### **Product Identification**

General Product Name: Biodiesel

Product Description: Blend

Synonyms: Methyl Soyate, Rapeseed Methyl Ester, Methyl Tallowate, Fatty Acid Methyl Ester, Vegetable Oil Methyl Ester, Methyl Ester, Palm Kernel Oil Methyl Ester

CAS Numbers: Methyl Soyate: 67784-80-9

Rapeseed Methyl Ester: 73891-99-3

Methyl Tallowate: 61788-71-2

Vegetable Fatty Acid Methyl Ester: 68990-52-3

C14-18 & C16-18

Unsaturated Alkylcarboxylic Acid Methyl Ester: 67762-26-9

Palm Kernel Fatty Acid Methyl Ester: 91051-32-0

Fatty acids, C8-C18, methyl ester: 68937-84-8

Methyl Laurate: 111-82-0

Methyl Myristate: 124-10-7

Methyl Oleate: 112-62-9

Methyl Palmitate: 112-39-0

Methyl Caprate: 110-42-9

Methyl Stearate: 112-61-8

Methyl Caprylate: 111-11-5

#### **Company Information**

Organic Fuels, LTD

One Riverway, Suite 2053

Houston, TX 77056

USA

Product Information: (713) 979-2600 Fax: (713) 456-2151

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

This product may contain 0%-100% of the Product identified above. This product contains no hazardous materials.

### **3. HAZARDS IDENTIFICATION**

#### **Potential Health Effects:**

**EYE CONTACT:**

May cause eye irritation.

**INHALATION:**

Negligible at ambient temperature. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea.

**SKIN CONTACT:**

Prolonged or repeated contact is not likely to cause significant skin irritation. Thermal burns are possible on contact with material at elevated temperatures.

**INGESTION:**

No hazards are anticipated from ingestion incidental to industrial exposure.

#### **4. FIRST AID MEASURES**

**EYES:**

After initial flush, remove any contact lenses, and continue to flush eyes with water for at least 15 to 20 minutes. Seek medical attention if irritation develops or persists.

**INHALATION:**

Remove to fresh air. Seek medical attention if symptoms persist.

**SKIN:**

Wash affected areas of the body with soap and water.

**INGESTION:**

Give one or two glasses of water to drink. If gastro-intestinal symptoms develop, consult medical personnel. (Note: Never give anything by mouth to an unconscious person.)

#### **5. FIRE FIGHTING MEASURES**

**Flammable Properties:**

Flash Point (Method Used): 130.0° C min (ASTM 93)

Auto-ignition Temperature: N/A

**Flammable Limits in Air:**

LEL: N/A

UEL: N/A

**Extinguishing Media:**

Dry chemical, foam, halon, carbon dioxide, water spray (fog). Note: Water stream may splash the burning liquid and spread fire.

**Special Fire Fighting Procedures:**

Use water spray to cool drums exposed to fire.

**Unusual Fire and explosion Hazards:**

Oil soaked rags can cause spontaneous combustion if not handled properly. Before disposal, wash rags with soap and water and dry in well ventilated area.

**Fire Fighting Instructions:**

Evacuate non-emergency personnel to a safe area. Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

#### **6. ACCIDENTAL RELEASE MEASURES SPILL CLEAN-UP PROCEDURES**

Remove sources of ignition, contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, "Oil Dry", sand or dirt.

Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

#### **7. HANDLING AND STORAGE**

Store in closed containers at temperatures between 50°F and 120°F, and keep away from oxidizing agents, excessive heat, and ignition sources. Store and use in well ventilated areas. Do not store or use near heat, spark, or flame. Store out of the sun.



Do not puncture, drag, or slide container. Drum is not a pressure vessel; never use pressure to empty.

Only use hoses and gaskets that are made of fluorinated polyethylene, fluorinated polypropylene, Teflon, Teflon lined, or Viton®. Use of nitrile, natural rubber, or Buna-N type rubbers, which are commonly found in fuel systems, is only allowed for blends of petroleum diesel with concentrations of biodiesel below 20%.

For blends higher than 20% biodiesel only steel, mild steel, stainless steel, aluminum, fluorinated polyethylene fluorinated polypropylene and fiberglass vessels are recommended. Use of tanks or lines made of brass, bronze, and copper or lead, tin, and zinc (i.e. galvanized) may cause sediment formation and filter clogging and are not recommended.

## **8. EXPOSURE CONTROL /PERSONAL PROTECTION**

### **ENGINEERING CONTROLS:**

Use only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

### **RESPIRATORY PROTECTION:**

If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator.

### **PROTECTIVE CLOTHING:**

Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

### **OTHER PROTECTIVE MEASURES:**

Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Pale Yellow Liquid with slight solvent smell
Odor:	Mild
Boiling Point:	>200°C
Vapor Pressure:	<2 mm Hg:
Vapor Density:	>1 (Air=1)
Solubility in Water:	Insoluble
Specific Gravity:	0.88 (Water=1)
% Volatiles:	<2% by Volume
Evaporation Rate:	<1 (Butyl Acetate=1)

## **10. STABILITY AND REACTIVITY**

### **GENERAL:**

This product is stable and hazardous polymerization will not occur.

### **INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Avoid contact with strong oxidizing agents

### **HAZARDOUS DECOMPOSITION PRODUCT:**

Combustion produces carbon monoxide and carbon dioxide along with

thick smoke.

## **11. DISPOSAL CONSIDERATIONS**

### **WASTE DISPOSAL:**

Waste may be disposed of by a licensed waste disposal company. Contaminated absorbent material may be disposed of in an approved landfill. Follow local, state and federal disposal regulations.

## **12. TRANSPORT INFORMATION**

### **UN HAZARD CLASS: N/A**

This product is not regulated by the U.S. department of Transportation (DOT)

NMFC (National Motor Freight Classification):

PROPER SHIPPING NAME: Fatty acid ester

IDENTIFICATION NUMBER: 144920

SHIPPING CLASSIFICATION: 65

## **13. REGULATORY INFORMATION:**

### **OSHA STATUS:**

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Sections 2 and 3.

### **TSCA STATUS:**

This product is listed on TSCA.

CERCLA (Comprehensive Response Compensation and Liability Act):

NOT reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

Not Extremely Hazardous Substances under Section 312

Non-hazardous under Section 311/312

Not a Toxic Chemical under Section 313

### **RCRA STATUS:**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste, (40 CFR 261.20-24)

### **CALIFORNIA PROPOSITION 65:**

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains no chemicals known to the state of California to cause cancer.

## **14. OTHER INFORMATION:**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and



**Organic Fuels**

RENEWABLE FUEL SOLUTIONS

Revision: 001 Issued: June 30, 2006

reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.



4904 Griggs Road  
Houston TX 77021  
Tel. (713) 676-1460  
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 7/15/2009

Dear **Control Room**

Thank you for choosing CES Environmental Services, Inc. for your waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** HOU-3427

**Expiration Date** 7/15/2011

**Generator:** Noltex

**Address:** 12220 Strang Road (Attn: Randy Boeding)  
La Porte, TX 77571

### **Waste Information**

**Name of Waste:** Non-hazardous filters (MeAc Feed Filters, East Filter Press Filt

**TCEQ Waste Code #:** 00053101

**Container Type:**

**Detailed Description of Process Generating Waste:**

Non-Haz filters, pads, and absorbent from EVOH manufacturing facility

**Color:** varies

**Odor:** alcohol

**pH:** 6-8

**Physical State:**

**Incompatibilities:** Strong oxidizers

**Safety Related Data/Special Handling:**

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President  
CES Environmental Services, Inc.

EPAHO082001989



fb/mm  
IS  
Houston

<input checked="" type="checkbox"/> CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1676 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	<input type="checkbox"/> CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
---	---

**SECTION 1: Generator Information**

Company: Noltex L.L.C.  
 Address: 12220 Strang Road  
 City: LaPorte State: TX Zip: 77571  
 Contact: L. Kristine Aparicio Title: FHS&S Manager  
 Phone Number: 281-842-5065 Fax Number: 281-842-5007  
 24/hr Phone Number: 281-842-5035  
 US EPA ID No: TXR000011106  
 State ID No: 84348 SIC Code: 2821, 2869

**SECTION 2: Billing Information:** ☒ Same as Above

Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Title: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

**SECTION 3: General Description of the Waste**

Name of Waste: Non-Hazardous Filters (MeAc Feed Filters, East Filter Press Filters, MeOH Feed Filters)

Detailed Description of Process Generating Waste:

Non-Haz Filters, Pads, and absorbent from EVOH manufacturing facility

Physical State: ☐ Liquid ☐ Sludge ☐ Powder  
☒ Solid ☐ Filter Cake ☐ Combination

Color: varies Odor: alcohol

Specific Gravity (water=1): NA Density: NA lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☒ No

Answer "Yes" if your waste contains benzene AND if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☒ Monthly ☐ Yearly ☐ One-Time

Quantity: 5

**Is this a USEPA "Hazardous Waste" per 40CFR 261.3?**

☐ Yes ☒ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

**If "Yes", Is it:**

☐ D001 (Ignitable)

☐ D002 (Corrosive)

☐ D003 (Reactive)

### Characteristic for Toxic Metals:

☐ D004

LD005

LJ D006

□ 2007

110008

0009

☐ D010

☐ D011

**Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)**

**Is this an "F" or "K" Listed waste or mixed with one?**

☐ **Yes**☒ No

**If "Yes", then please list ALL applicable codes:**

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☒ No

☐ Yes☒ No

**If "Yes", then please list ALL applicable codes:**

**Texas State Waste Code Number:**

00053101

**Proper US DOT Shipping Name:**

**Non RCRA/Non-DOT Regulated Material (used filters)**

**Class:**

NA

UN/NA:

NA

**PG**

NA

**RO:**

NA

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>212 deg F		6-8		< 100 <u>mg/l</u>		<20 <u>mg/l</u>		100 <u>%</u>	
Oil & Grease		TOC		Zinc		Copper		Nickel	
NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>	NA	<u>mg/l</u>

#### SECTION 4: Physical and Chemical Data

[illegible]

**SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.  
standard PPE

**SECTION 6: Attached Supporting Documents**

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Materials sampled on 6/1/2009, 6/11/2009, 6/14/2009, and 6/15/2009 and analyzed on 6/11/2009, 7/8/2009, and 7/10/2009.

**SECTION 7: Incompatibilities**

Please list ALL incompatibilities (if any):  
strong oxidizers

**SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	see attached analytical report
TCLP Volatiles:	see attached analytical report
TCLP Semi-Volatiles:	see attached analytical report
Reactivity:	see attached analytical report
Corrosivity:	see attached analytical report
Ignitability:	see attached analytical report

**SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Pertaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)**

Is this material a wastewater or wastewater sludge?  
If 'Yes', complete this section.

☐ YES ☒ NO

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

**Metals Subcategory: Subpart A**

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

**Oils Subcategory: Subpart B**

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

**Organics Subcategory: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L

Chromium: 8.9 mg/L

Copper: 4.9 mg/L

Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

**SECTION 10: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

**SECTION 11: Generator's Certification**

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data.

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

Executive Vice President

Randall Boedling

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: \_\_\_\_\_

Date: \_\_\_\_\_

2-15-09

☐ Approved☐ Rejected

Approval Number: \_\_\_\_\_



**CES Environmental  
Services, Inc.**

**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**1. Base Pricing (including freight):**

\$65/drum + trans + fsc

**2. Contamination Limit (maximum limit before surcharges apply):**

**3. Surcharge Pricing:**

**4. Special Testing Requirements:**

**5. Treatment and Handling Protocol:**

Class 1 Solids

**6. Treated Wastewater Discharge Subcategory:**

☐ Subcategory A

☐ Subcategory B

☐ Subcategory C



**PROCESS FACILITY INFORMATION (CES USE ONLY)!!!**

**7. Tests for Product Recovered/Recycled (if applicable):**

--

**8. Management for Product Recovered/Recycled (if applicable)**

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THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

Job Number: 600-12026-1

Job Description: Feed Filters TCLP, RCI, BTU 6/25/09

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

*Neil A. Rodrigue*

Approved for release.  
Neil A. Rodrigue  
Project Manager II  
7/8/2009 6:58 PM

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Neil A Rodrigue  
Project Manager II  
neil.rodrigue@testamericainc.com  
07/08/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

**TestAmerica Laboratories, Inc.**

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 [www.testamericainc.com](http://www.testamericainc.com)



Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 326 MeOH Feed Filters  
Lab Sample ID: 600-12026-1

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-8260B			Date Analyzed:		06/30/2009 1530	
Prep Method: 5030B			Date Prepared:		06/30/2009 1530	
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate				Acceptance Limits		
4-Bromofluorobenzene	100		%		70 - 130	
Dibromofluoromethane	91		%		70 - 130	
Toluene-d8 (Surr)	104		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	89		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:		07/01/2009 1620	
Prep Method: 3510C			Date Prepared:		06/30/2009 1202	
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate				Acceptance Limits		
Phenol-d6	43		%		10 - 94	
Nitrobenzene-d5	79		%		35 - 114	
2-Fluorophenol	56		%		21 - 100	
2-Fluorobiphenyl	79		%		43 - 116	
2,4,6-Tribromophenol	101		%		10 - 123	
Terphenyl-d14	79		%		33 - 141	

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 326 MeOH Feed Filters  
Lab Sample ID: 600-12026-1

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed:		07/02/2009 1518	
Prep Method: 3010A			Date Prepared:		07/02/2009 0906	
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0016	U	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ba	0.099	B	mg/L	0.0016	0.020	1.0
As	0.010	B	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.016	J B	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed:		07/01/2009 1322	
Prep Method: 7470A			Date Prepared:		07/01/2009 0848	
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date Analyzed:		06/30/2009 1348	
Prep Method: 7.3.4			Date Prepared:		06/29/2009 1126	
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0
Method: 9012			Date Analyzed:		06/30/2009 1424	
Prep Method: 7.3.3			Date Prepared:		06/29/2009 1126	
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 323 MeAc Feed Filters  
Lab Sample ID: 600-12026-2

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-8260B			Date Analyzed:		06/30/2009 1556	
Prep Method: 5030B			Date Prepared:		06/30/2009 1556	
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	107		%		70 - 130	
Dibromofluoromethane	90		%		70 - 130	
Toluene-d8 (Surr)	103		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	87		%		70 - 130	
Method: TCLP-8270C			Date Analyzed:		07/01/2009 1653	
Prep Method: 3510C			Date Prepared:		06/30/2009 1202	
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate					Acceptance Limits	
Phenol-d6	41		%		10 - 94	
Nitrobenzene-d5	83	E	%		35 - 114	
2-Fluorophenol	54		%		21 - 100	
2-Fluorobiphenyl	79		%		43 - 116	
2,4,6-Tribromophenol	90	E	%		10 - 123	
Terphenyl-d14	85	E	%		33 - 141	

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 323 MeAc Feed Filters  
Lab Sample ID: 600-12026-2

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed: 07/02/2009 1522			
Prep Method: 3010A			Date Prepared: 07/02/2009 0906			
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0025	J B	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ba	0.21	B	mg/L	0.0016	0.020	1.0
As	0.0097	J B	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.015	J B	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed: 07/01/2009 1332			
Prep Method: 7470A			Date Prepared: 07/01/2009 0848			
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date Analyzed: 06/30/2009 1348			
Prep Method: 7.3.4			Date Prepared: 06/29/2009 1126			
Sulfide, Reactive	40	J	mg/Kg	14	50	1.0
Method: 9012			Date Analyzed: 06/30/2009 1424			
Prep Method: 7.3.3			Date Prepared: 06/29/2009 1126			
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 323 MeAc Feed Filters  
Lab Sample ID: 600-12026-2

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9045C pH	7.66 HF	SU	0.0100	0.0100	1.0
Method: D240-87 BTU	21000	BTU/lb	500	500	1.0
Method: D92 Flashpoint	>212	Degrees F	1.0	1.0	1.0

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 327 MeOH Feed Filter  
Lab Sample ID: 600-12026-3

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
<b>Method: TCLP-8260B</b>			Date Analyzed:		06/30/2009 1622	
<b>Prep Method: 5030B</b>			Date Prepared:		06/30/2009 1622	
Benzene	22	U	ug/L	22	100	20
Carbon tetrachloride	22	U	ug/L	22	100	20
Chlorobenzene	18	U	ug/L	18	100	20
Chloroform	18	U	ug/L	18	100	20
1,2-Dichloroethane	22	U	ug/L	22	100	20
1,1-Dichloroethene	23	U	ug/L	23	100	20
2-Butanone (MEK)	32	U	ug/L	32	200	20
Tetrachloroethene	46	U	ug/L	46	100	20
Trichloroethene	26	U	ug/L	26	100	20
Vinyl chloride	32	U	ug/L	32	100	20
1,4-Dichlorobenzene	22	U	ug/L	22	100	20
Surrogate					Acceptance Limits	
4-Bromofluorobenzene	101		%		70 - 130	
Dibromofluoromethane	87		%		70 - 130	
Toluene-d8 (Surr)	101		%		70 - 130	
1,2-Dichloroethane-d4 (Surr)	89		%		70 - 130	
<b>Method: TCLP-8270C</b>			Date Analyzed:		07/01/2009 1727	
<b>Prep Method: 3510C</b>			Date Prepared:		06/30/2009 1202	
1,4-Dichlorobenzene	1.3	U	ug/L	1.3	10	1.0
2,4-Dinitrotoluene	0.95	U	ug/L	0.95	10	1.0
2,4,5-Trichlorophenol	1.3	U	ug/L	1.3	10	1.0
2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	10	1.0
2-Methylphenol	1.0	U	ug/L	1.0	10	1.0
3 & 4 Methylphenol	1.9	U	ug/L	1.9	20	1.0
Hexachlorobenzene	0.90	U	ug/L	0.90	10	1.0
Hexachlorobutadiene	1.1	U	ug/L	1.1	10	1.0
Hexachloroethane	1.2	U	ug/L	1.2	10	1.0
Nitrobenzene	1.2	U	ug/L	1.2	10	1.0
Pentachlorophenol	0.89	U	ug/L	0.89	50	1.0
Pyridine	1.0	U	ug/L	1.0	10	1.0
Surrogate					Acceptance Limits	
Phenol-d6	45		%		10 - 94	
Nitrobenzene-d5	86	E	%		35 - 114	
2-Fluorophenol	60		%		21 - 100	
2-Fluorobiphenyl	81	E	%		43 - 116	
2,4,6-Tribromophenol	97	E	%		10 - 123	
Terphenyl-d14	85	E	%		33 - 141	

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 327 MeOH Feed Filter  
Lab Sample ID: 600-12026-3

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: TCLP-6010B			Date Analyzed: 07/02/2009 1537			
Prep Method: 3010A			Date Prepared: 07/02/2009 0906			
Pb	0.0029	U	mg/L	0.0029	0.010	1.0
Cr	0.0016	U	mg/L	0.0016	0.010	1.0
Cd	0.00073	U	mg/L	0.00073	0.0050	1.0
Ba	0.11	B	mg/L	0.0016	0.020	1.0
As	0.011	B	mg/L	0.0033	0.010	1.0
Ag	0.0012	U	mg/L	0.0012	0.010	1.0
Se	0.017	J B	mg/L	0.0042	0.040	1.0
Method: TCLP-7470A			Date Analyzed: 07/01/2009 1334			
Prep Method: 7470A			Date Prepared: 07/01/2009 0848			
Mercury	0.021	U	ug/L	0.021	0.20	1.0
Method: 7.4.4			Date Analyzed: 06/30/2009 1348			
Prep Method: 7.3.4			Date Prepared: 06/29/2009 1126			
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0
Method: 9012			Date Analyzed: 06/30/2009 1424			
Prep Method: 7.3.3			Date Prepared: 06/29/2009 1126			
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0

Ms. Joy Snodgrass  
Noltex LLC  
12220 Strang Road  
La Porte, TX 77571-9740

Job Number: 600-12026-1

Client Sample ID: # 327 MeOH Feed Filter  
Lab Sample ID: 600-12026-3

Date Sampled: 06/25/2009 0930  
Date Received: 06/25/2009 1234  
Client Matrix: Solid

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 9045C pH	6.98 HF	SU	0.0100	0.0100	1.0
Method: D240-87 BTU	3600	BTU/lb	500	500	1.0
Method: D92 Flashpoint	>212	Degrees F	1.0	1.0	1.0

## METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Description		Lab Location	Method	Preparation Method
Matrix	Solid			
Volatile Organic Compounds (GC/MS)		TAL HOU	SW846 8260B	
	TCLP Extraction	TAL HOU		SW846 1311
	Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		TAL HOU	SW846 8270C	
	TCLP Extraction	TAL HOU		SW846 1311
	Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)		TAL HOU	SW846 6010B	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)		TAL HOU	SW846 7470A	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide		TAL HOU	EPA 7.4.4	
	Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive		TAL HOU	SW846 9012	
	Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity		TAL HOU	SW846 9045C	
Heat of Combustion		TAL HOU	ASTM D240-87	
Flashpoint		TAL HOU	ASTM D92	

### Lab References:

TAL HOU = TestAmerica Houston

### Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-12026-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zaifang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Puranik, Surendra U	SUP
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

## **QUALITY CONTROL RESULTS**

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17167

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-17167/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1322  
Date Prepared: 06/30/2009 1322

Analysis Batch: 600-17167  
Prep Batch: N/A  
Units: ug/L

Instrument ID: VOA-V  
Lab File ID: H18104.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	104	70 - 130
1,2-Dichloroethane-d4 (Surr)	90	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17167

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-17167/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1347  
Date Prepared: 06/30/2009 1347

Analysis Batch: 600-17167  
Prep Batch: N/A  
Units: ug/L

Instrument ID: VOA-V  
Lab File ID: H18105.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	70 - 130
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	103	70 - 130
1,2-Dichloroethane-d4 (Surr)	94	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Lab Control Sample - Batch: 600-17167

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 600-17167/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1232  
Date Prepared: 06/30/2009 1232

Analysis Batch: 600-17167  
Prep Batch: N/A  
Units: ug/L

Instrument ID: VOA-V  
Lab File ID: H18102.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	46.7	93	69 - 124	
Carbon tetrachloride	50.0	45.3	91	57 - 134	
Chlorobenzene	50.0	46.8	94	70 - 129	
Chloroform	50.0	46.6	93	69 - 128	
1,2-Dichloroethane	50.0	43.8	88	65 - 134	
1,1-Dichloroethene	50.0	43.8	88	45 - 136	
2-Butanone (MEK)	100	103	103	53 - 140	
Tetrachloroethene	50.0	46.9	94	59 - 134	
Trichloroethene	50.0	47.2	94	68 - 130	
Vinyl chloride	50.0	43.7	87	38 - 153	
1,4-Dichlorobenzene	50.0	46.2	92	72 - 131	
Surrogate		% Rec		Acceptance Limits	
4-Bromofluorobenzene		94		70 - 130	
Dibromofluoromethane		100		70 - 130	
Toluene-d8 (Sum)		94		70 - 130	
1,2-Dichloroethane-d4 (Sum)		91		70 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

Method Blank - Batch: 600-17108

Method: 8270C  
Preparation: 3510C

Lab Sample ID: MB 600-17108/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1814  
Date Prepared: 06/30/2009 1202

Analysis Batch: 600-17114  
Prep Batch: 600-17108  
Units: ug/L

Instrument ID: MSD1526  
Lab File ID: A0630915.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	49	10 - 94
Nitrobenzene-d5	89	35 - 114
2-Fluorophenol	70	21 - 100
2-Fluorobiphenyl	92	43 - 116
2,4,6-Tribromophenol	81	10 - 123
Terphenyl-d14	104	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 600-17108

Method: 8270C  
Preparation: 3510C

LCS Lab Sample ID: LCS 600-17108/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1848  
Date Prepared: 06/30/2009 1202

Analysis Batch: 600-17114  
Prep Batch: 600-17108  
Units: ug/L

Instrument ID: MSD1526  
Lab File ID: A0630916.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-17108/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1922  
Date Prepared: 06/30/2009 1202

Analysis Batch: 600-17114  
Prep Batch: 600-17108  
Units: ug/L

Instrument ID: MSD1526  
Lab File ID: A0630917.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dichlorobenzene	77	82	45 - 105	6	20		
2,4-Dinitrotoluene	86	96	61 - 162	11	20		
2,4,5-Trichlorophenol	77	85	59 - 123	9	20		
2,4,6-Trichlorophenol	75	82	30 - 143	9	20		
2-Methylphenol	74	75	34 - 109	2	20		
3 & 4 Methylphenol	80	77	27 - 113	4	20		
Hexachlorobenzene	88	87	62 - 121	2	20		
Hexachlorobutadiene	81	90	32 - 143	11	20		
Hexachloroethane	77	76	42 - 110	1	20		
Nitrobenzene	78	84	55 - 115	8	20		
Pentachlorophenol	64	76	44 - 142	17	20	J	J
Pyridine	39	44	10 - 109	12	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d6	51	46	10 - 94
Nitrobenzene-d5	80	84	35 - 114
2-Fluorophenol	66	61	21 - 100
2-Fluorobiphenyl	85	88	43 - 116
2,4,6-Tribromophenol	92	98	10 - 123
Terphenyl-d14	96	96	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Method Blank - Batch: 600-17233

Method: 6010B  
Preparation: 3010A

Lab Sample ID: MB 600-17233/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1507  
Date Prepared: 07/02/2009 0906

Analysis Batch: 600-17258  
Prep Batch: 600-17233  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070209  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.0016	U	0.0016	0.020
As	0.0033	U	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0042	U	0.0042	0.040

### TCLP SPLPE Leachate Blank - Batch: 600-17233

Method: 6010B  
Preparation: 3010A  
TCLP

Lab Sample ID: LB 600-17076/1-D  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1515  
Date Prepared: 07/02/2009 0906  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258  
Prep Batch: 600-17233  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070209  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-17076

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	J	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.078	U	0.0016	0.020
As	0.0094	J	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.015	J	0.0042	0.040

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

## Lab Control Sample - Batch: 600-17233

Method: 6010B

Preparation: 3010A

Lab Sample ID: LCS 600-17233/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1511  
Date Prepared: 07/02/2009 0906

Analysis Batch: 600-17258  
Prep Batch: 600-17233  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070209  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pb	1.00	1.03	103	80 - 120	
Cr	1.00	1.00	100	80 - 120	
Cd	0.500	0.521	104	80 - 120	
Ba	1.00	1.06	106	80 - 120	
As	1.00	1.04	104	80 - 120	
Ag	0.500	0.508	102	80 - 120	
Se	1.00	1.01	101	80 - 120	

## Matrix Spike/

## Matrix Spike Duplicate Recovery Report - Batch: 600-17233

Method: 6010B

Preparation: 3010A

TCLP

MS Lab Sample ID: 600-12026-2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1529  
Date Prepared: 07/02/2009 0906  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258  
Prep Batch: 600-17233

Instrument ID: TJA ICP 61E  
Lab File ID: T070209  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-17076

MSD Lab Sample ID: 600-12026-2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1533  
Date Prepared: 07/02/2009 0906  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258  
Prep Batch: 600-17233

Instrument ID: TJA ICP 61E  
Lab File ID: T070209  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-17076

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Pb	103	104	75 - 125	1	20		
Cr	97	98	75 - 125	1	20		
Cd	104	106	75 - 125	2	20		
Ba	103	102	75 - 125	1	20		
As	112	112	75 - 125	0	20		
Ag	108	108	75 - 125	0	20		
Se	116	115	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

**Duplicate - Batch: 600-17233**

**Method: 6010B**  
**Preparation: 3010A**  
**TCLP**

Lab Sample ID: 600-12026-2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1526  
Date Prepared: 07/02/2009 0906  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17258  
Prep Batch: 600-17233  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070209  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-17076

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Pb	0.0029	U	0.0029	NC	20	U
Cr	0.0025	J	0.00254	2	20	J
Cd	0.00073	U	0.00073	NC	20	U
Ba	0.21		0.203	1	20	
As	0.0097	J	0.00923	5	20	J
Ag	0.0012	U	0.0012	NC	20	U
Se	0.015	J	0.0134	14	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Method Blank - Batch: 600-17151

Lab Sample ID: MB 600-17151/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1231  
Date Prepared: 07/01/2009 0848

Analysis Batch: 600-17197  
Prep Batch: 600-17151  
Units: ug/L

### Method: 7470A Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

### TCLP SPLPE Leachate Blank - Batch: 600-17151

Lab Sample ID: LB 600-17076/1-C  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1320  
Date Prepared: 07/01/2009 0848  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197  
Prep Batch: 600-17151  
Units: ug/L

Leachate Batch: 600-17076

### Method: 7470A Preparation: 7470A TCLP

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

### Lab Control Sample - Batch: 600-17151

Lab Sample ID: LCS 600-17151/8-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1233  
Date Prepared: 07/01/2009 0848

Analysis Batch: 600-17197  
Prep Batch: 600-17151  
Units: ug/L

### Method: 7470A Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	2.94	98	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Matrix Spike/

### Matrix Spike Duplicate Recovery Report - Batch: 600-17151

Method: 7470A

Preparation: 7470A

TCLP

MS Lab Sample ID: 600-12026-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1329  
Date Prepared: 07/01/2009 0848  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197  
Prep Batch: 600-17151

Leachate Batch: 600-17076

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 600-12026-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1330  
Date Prepared: 07/01/2009 0848  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197  
Prep Batch: 600-17151

Leachate Batch: 600-17076

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	95	95	75 - 125	0	20		

### Duplicate - Batch: 600-17151

Method: 7470A

Preparation: 7470A

TCLP

Lab Sample ID: 600-12026-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1327  
Date Prepared: 07/01/2009 0848  
Date Leached: 06/29/2009 1400

Analysis Batch: 600-17197  
Prep Batch: 600-17151  
Units: ug/L

Leachate Batch: 600-17076

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.021 U	0.021	NC	20	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Method Blank - Batch: 600-17032

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: MB 600-17032/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1348  
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17121  
Prep Batch: 600-17032  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

### Lab Control Sample - Batch: 600-17032

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: LCS 600-17032/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1348  
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17121  
Prep Batch: 600-17032  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1840	1120	61	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Method Blank - Batch: 600-17032

Method: 9012  
Preparation: 7.3.3

Lab Sample ID: MB 600-17032/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/30/2009 1424  
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17124  
Prep Batch: 600-17032  
Units: ug/Kg

Instrument ID: WC05 Lachat-1  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	18	U	18	250

### Lab Control Sample - Batch: 600-17032

Method: 9012  
Preparation: 7.3.3

Lab Sample ID: LCS 600-17032/2-A  
Client Matrix: Solid  
Dilution: 20  
Date Analyzed: 06/30/2009 1424  
Date Prepared: 06/29/2009 1126

Analysis Batch: 600-17124  
Prep Batch: 600-17032  
Units: ug/Kg

Instrument ID: WC05 Lachat-1  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	52700	5	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Lab Control Sample - Batch: 600-17024

Method: 9045C  
Preparation: N/A

Lab Sample ID: LCS 600-17024/1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 0830  
Date Prepared: N/A

Analysis Batch: 600-17024  
Prep Batch: N/A  
Units: SU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.010	100	99 - 101	

### Duplicate - Batch: 600-17024

Method: 9045C  
Preparation: N/A

Lab Sample ID: 600-12026-3  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/29/2009 0830  
Date Prepared: N/A

Analysis Batch: 600-17024  
Prep Batch: N/A  
Units: SU

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 20 mL  
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.98	6.970	0	1	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Method Blank - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-17482/10  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/07/2009 1645  
Date Prepared: N/A

Analysis Batch: 600-17482  
Prep Batch: N/A  
Units: BTU/lb

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0263 g  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
BTU	500	U	500	500

### Lab Control Sample - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-17482/1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/07/2009 1645  
Date Prepared: N/A

Analysis Batch: 600-17482  
Prep Batch: N/A  
Units: BTU/lb

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 0.9875 g  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11200	98	90 - 110	

### Duplicate - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: 600-12026-1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/07/2009 1645  
Date Prepared: N/A

Analysis Batch: 600-17482  
Prep Batch: N/A  
Units: BTU/lb

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0361 g  
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
BTU	2800	3990	35	20	F

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12026-1

### Method Blank - Batch: 600-17227

Lab Sample ID: MB 600-17227/1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1300  
Date Prepared: N/A

Analysis Batch: 600-17227  
Prep Batch: N/A  
Units: Degrees F

Method: D92  
Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

### Lab Control Sample - Batch: 600-17227

Lab Sample ID: LCS 600-17227/2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1300  
Date Prepared: N/A

Analysis Batch: 600-17227  
Prep Batch: N/A  
Units: Degrees F

Method: D92  
Preparation: N/A

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 - 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-12026-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	F	Duplicate RPD exceeds the control limit
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

**Job Narrative**  
**600-J12026-1**

**GC/MS Semi VOA**

Method 8270C: Samples were double spiked with surrogate resulting in high results that exceed ICAL. %R for these surrogate were still within control limits.

No other analytical or quality issues were noted.

**General Chemistry**

Method D240-87: This sample is a very light material (nylon cloth), due to this the full aliquot of sample could not be used and a smaller aliquot of sample was analyzed.

No other analytical or quality issues were noted.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY RECORD

Page: -

Loc: 800

12026

#1

600-12026-A-1

07/08/2009

TestAmerica Laboratories, inc.

Customer Information		Project Information		Analysis/Methods	
PO:		Project Name:	Waste Disposal	A	TCLP-Volatiles (8260)
WO:		TAL Project No:	60000463	B	TCLP-Semivolatiles (8270)
Company:	Noltex, LLC	Bill To:	Noltex, LLC	C	TLCP-Metals (6010/7470)
Report to:	Joy Snodgrass	Invoice ATTN:	Joy Snodgrass	D	RCI
Address:	12220 Strang Road La Porte, TX 77571-9740	Address:	12220 Strang Road La Porte, TX 77571-9740	E	BTUs
E-mail:	Joy_Snodgrass@noltex.com		Joy_Snodgrass@noltex.com	F	
Phone:	281-842-5039	Phone:	281-842-5039	G	
Fax:	281-842-5097	Fax:	281-842-5097	H	
				I	Other:
				J	

No.	Sample Description	Preservation	Date	Time	Matrix	# Cont.	Comments	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	# 326 MeOH Feed Filters	NONE	6/25/09	9:30	Waste	3		X	X	X	X	X													
2	# 323 MeOH Feed Filters	NONE	6/25/09	9:30	Waste	3		X	X	X	X	X													
3	# 327 MeOH Feed Filter	NONE	6/25/09	9:30	Waste	3		X	X	X	X	X													
4																									
5																									
6																									
7																									
8																									

Sampler:		Shipment Method: TAL Pickup		Required TAT: 24-h 48-h 72-h 5 Days 10 Days Other:	
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:
Joy Snodgrass	6/25/09	Joy Snodgrass	6/25/09	Joy Snodgrass	6/25/09
Company:	Time:	Company:	Time:	Company:	Time:
Noltex	10:00	Noltex	10:00	Noltex	12:34
5. Relinquished by:	Date:	6. Received by:	Date:	7. Relinquished by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:

Comments/Notes:	

TestAmerica Laboratories  
TAL Project Manager:

6310 Rothway Drive, Suite 130  
Neil Rodrigue 713-358-2006

Houston, TX 77040

Phone: 713.690.4444

Fax: 713.690.5646

EPAHQ082002025

## Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-12026-1

Login Number: 12026

List Source: TestAmerica Houston

Creator: Claunch, Todd F

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	



THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

Job Number: 600-12080-1

Job Description: East Filter Press TCLP, RCI, BTU 6/26/09

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

*Neil A. Rodriguez*

Approved for release.  
Neil A Rodriguez  
Project Manager II  
7/10/2009 2:26 PM

Neil A Rodriguez

Project Manager II

neil.rodrique@testamericainc.com

07/10/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 [www.testamericainc.com](http://www.testamericainc.com)



## SAMPLE SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
600-12080-1	#325 East Filter Press	Solid	06/26/2009 1030	06/26/2009 1248

**Analytical Data**

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

**8260B Volatile Organic Compounds (GC/MS)-TCLP**

Method:	8260B	Analysis Batch: 600-17596	Instrument ID:	VOAMS05
Preparation:	5030B		Lab File ID:	H19008.D
Dilution:	20	Leachate Batch: 600-17517	Initial Weight/Volume:	5 mL
Date Analyzed:	07/09/2009 1504		Final Weight/Volume:	5 mL
Date Prepared:	07/09/2009 1504			
Date Leached:	07/08/2009 0800			

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Benzene		22	U	22	100
Carbon tetrachloride		22	U	22	100
Chlorobenzene		18	U	18	100
Chloroform		18	U	18	100
1,2-Dichloroethane		22	U	22	100
1,1-Dichloroethene		23	U	23	100
2-Butanone (MEK)		32	U	32	200
Tetrachloroethene		46	U	46	100
Trichloroethene		26	U	26	100
Vinyl chloride		32	U	32	100
1,4-Dichlorobenzene		22	U	22	100

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	87		70 - 130
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130

**Analytical Data**

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)-TCLP**

Method:	8270C	Analysis Batch:	600-17546	Instrument ID:	SVMS05
Preparation:	3510C	Prep Batch:	600-17412	Lab File ID:	Z0708921.D
Dilution:	1.0	Leachate Batch:	600-17301	Initial Weight/Volume:	995 mL
Date Analyzed:	07/08/2009 2145			Final Weight/Volume:	1.00 mL
Date Prepared:	07/07/2009 1416			Injection Volume:	1.0 uL
Date Leached:	07/02/2009 1500				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		1.3	U	1.3	10
2,4-Dinitrotoluene		0.95	U	0.95	10
2,4,5-Trichlorophenol		1.3	U	1.3	10
2,4,6-Trichlorophenol		0.92	U	0.92	10
2-Methylphenol		1.0	U	1.0	10
3 & 4 Methylphenol		1.9	U	1.9	20
Hexachlorobenzene		0.90	U	0.90	10
Hexachlorobutadiene		1.1	U	1.1	10
Hexachloroethane		1.2	U	1.2	10
Nitrobenzene		1.2	U	1.2	10
Pentachlorophenol		0.89	U	0.89	50
Pyridine		1.0	U *	1.0	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Phenol-d6	51		10 - 94
Nitrobenzene-d5	92		35 - 114
2-Fluorophenol	66		21 - 100
2-Fluorobiphenyl	91		43 - 116
2,4,6-Tribromophenol	109		10 - 123
Terphenyl-d14	105		33 - 141

**Analytical Data**

Client: Noltex LLC

Job Number: 600-12080-1

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Date Sampled: 06/26/2009 1030

Client Matrix: Solid

Date Received: 06/26/2009 1248

**6010B Metals (ICP)-TCLP**

Method:	6010B	Analysis Batch:	600-17523	Instrument ID:	TJA1
Preparation:	3010A	Prep Batch:	600-17467	Lab File ID:	T070909
Dilution:	1.0	Leachate Batch:	600-17301	Initial Weight/Volume:	50 mL
Date Analyzed:	07/09/2009 0932			Final Weight/Volume:	50 mL
Date Prepared:	07/08/2009 0948				
Date Leached:	07/02/2009 1500				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Lead		0.0029	U	0.0029	0.010
Chromium		0.0070	J	0.0016	0.010
Cadmium		0.00073	U	0.00073	0.0050
Barium		0.080	B	0.0016	0.020
Arsenic		0.011	B	0.0033	0.010
Silver		0.0012	U	0.0012	0.010
Selenium		0.012	JB	0.0042	0.040

**7470A Mercury (CVAA)-TCLP**

Method:	7470A	Analysis Batch:	600-17415	Instrument ID:	FIMS01
Preparation:	7470A	Prep Batch:	600-17381	Lab File ID:	N/A
Dilution:	1.0	Leachate Batch:	600-17301	Initial Weight/Volume:	40 mL
Date Analyzed:	07/07/2009 1408			Final Weight/Volume:	40 mL
Date Prepared:	07/07/2009 1000				
Date Leached:	07/02/2009 1500				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Mercury		0.021	U	0.021	0.20

**Analytical Data**

Client: Noltex LLC

Job Number: 600-12080-1

**General Chemistry**

Client Sample ID: #325 East Filter Press

Lab Sample ID: 600-12080-1

Client Matrix: Solid

Date Sampled: 06/26/2009 1030

Date Received: 06/26/2009 1248

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0	9012
	Analysis Batch: 600-17274		Date Analyzed: 07/02/2009 1348				DryWt Corrected: N
	Prep Batch: 600-17173		Date Prepared: 07/01/2009 1150				
Sulfide, Reactive	30	J	mg/Kg	14	50	1.0	7.4.4
	Analysis Batch: 600-17273		Date Analyzed: 07/02/2009 1230				DryWt Corrected: N
	Prep Batch: 600-17173		Date Prepared: 07/01/2009 1150				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Flashpoint	>212		Degrees F	1.0	1.0	1.0	D92
	Analysis Batch: 600-17227		Date Analyzed: 07/01/2009 1300				DryWt Corrected: N
pH	6.08	HF	SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 600-17024		Date Analyzed: 06/29/2009 0830				DryWt Corrected: N
BTU	15000		BTU/lb	500	500	1.0	D240-87
	Analysis Batch: 600-17482		Date Analyzed: 07/07/2009 1645				DryWt Corrected: N

## METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Volatile Organic Compounds (GC/MS)	TAL HOU	SW846 8260B	
TCLP Extraction	TAL HOU		SW846 1311
Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL HOU	SW846 8270C	
TCLP Extraction	TAL HOU		SW846 1311
Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)	TAL HOU	SW846 6010B	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)	TAL HOU	SW846 7470A	
TCLP Extraction	TAL HOU		SW846 1311
Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide	TAL HOU	EPA 7.4.4	
Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity	TAL HOU	SW846 9045C	
Heat of Combustion	TAL HOU	ASTM D240-87	
Flashpoint	TAL HOU	ASTM D92	

### Lab References:

TAL HOU = TestAmerica Houston

### Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-12080-1

Method	Analyst	Analyst ID
SW846 8260B	Liu, Zaifang	ZFL
SW846 8270C	Sundquist, Trevor W	TWS
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Puranik, Surendra U	SUP
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17596

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-17596/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/09/2009 1345  
Date Prepared: 07/09/2009 1345

Analysis Batch: 600-17596  
Prep Batch: N/A  
Units: ug/L

Instrument ID: VOA-V  
Lab File ID: H19005.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	103	70 - 130
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	88	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 600-17596

Method: 8260B  
Preparation: 5030B  
TCLP

MS Lab Sample ID: 600-12080-1  
Client Matrix: Solid  
Dilution: 20  
Date Analyzed: 07/09/2009 1411  
Date Prepared: 07/09/2009 1411  
Date Leached: 07/08/2009 0800

Analysis Batch: 600-17596  
Prep Batch: N/A

Instrument ID: VOA-V  
Lab File ID: H19006.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 600-12080-1  
Client Matrix: Solid  
Dilution: 20  
Date Analyzed: 07/09/2009 1437  
Date Prepared: 07/09/2009 1437  
Date Leached: 07/08/2009 0800

Analysis Batch: 600-17596  
Prep Batch: N/A

Instrument ID: VOA-V  
Lab File ID: H19007.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	101	102	65 - 125	2	21		
Carbon tetrachloride	93	93	60 - 140	0	25		
Chlorobenzene	94	92	74 - 122	3	21		
Chloroform	91	90	60 - 140	1	25		
1,2-Dichloroethane	95	96	60 - 140	1	25		
1,1-Dichloroethene	95	87	22 - 123	9	22		
2-Butanone (MEK)	119	115	60 - 140	3	25		
Tetrachloroethene	91	90	60 - 140	2	25		
Trichloroethene	98	97	56 - 118	1	24		
Vinyl chloride	80	78	60 - 140	3	25		
1,4-Dichlorobenzene	98	93	60 - 140	5	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	115	112	70 - 130
Dibromofluoromethane	102	100	70 - 130
Toluene-d8 (Surr)	106	104	70 - 130
1,2-Dichloroethane-d4 (Surr)	96	93	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Method Blank - Batch: 600-17412

Method: 8270C  
Preparation: 3510C

Lab Sample ID: MB 600-17412/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/08/2009 1353  
Date Prepared: 07/07/2009 1416

Analysis Batch: 600-17546  
Prep Batch: 600-17412  
Units: ug/L

Instrument ID: MSD2348  
Lab File ID: Z0708907.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	35	10 - 94
Nitrobenzene-d5	76	35 - 114
2-Fluorophenol	47	21 - 100
2-Fluorobiphenyl	71	43 - 116
2,4,6-Tribromophenol	85	10 - 123
Terphenyl-d14	91	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 600-17412

Method: 8270C

Preparation: 3510C

LCS Lab Sample ID: LCS 600-17412/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/08/2009 1427  
Date Prepared: 07/07/2009 1416

Analysis Batch: 600-17546  
Prep Batch: 600-17412  
Units: ug/L

Instrument ID: MSD2348  
Lab File ID: Z0708908.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-17412/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/08/2009 1501  
Date Prepared: 07/07/2009 1416

Analysis Batch: 600-17546  
Prep Batch: 600-17412  
Units: ug/L

Instrument ID: MSD2348  
Lab File ID: Z0708909.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dichlorobenzene	85	87	45 - 105	2	20		
2,4-Dinitrotoluene	110	110	61 - 162	0	20		
2,4,5-Trichlorophenol	95	97	59 - 123	2	20		
2,4,6-Trichlorophenol	96	94	30 - 143	2	20		
2-Methylphenol	79	82	34 - 109	4	20		
3 & 4 Methylphenol	92	93	27 - 113	2	20		
Hexachlorobenzene	104	103	62 - 121	2	20		
Hexachlorobutadiene	91	91	32 - 143	1	20		
Hexachloroethane	85	86	42 - 110	1	20		
Nitrobenzene	94	93	55 - 115	1	20		
Pentachlorophenol	94	89	44 - 142	5	20	J	J
Pyridine	58	33	10 - 109	54	40		*

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d6	49	50	10 - 94
Nitrobenzene-d5	99	96	35 - 114
2-Fluorophenol	64	64	21 - 100
2-Fluorobiphenyl	93	93	43 - 116
2,4,6-Tribromophenol	117	112	10 - 123
Terphenyl-d14	106	103	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Method Blank - Batch: 600-17467

Method: 6010B  
Preparation: 3010A

Lab Sample ID: MB 600-17467/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/09/2009 0830  
Date Prepared: 07/08/2009 0922

Analysis Batch: 600-17523  
Prep Batch: 600-17467  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070909  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Lead	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.0016	U	0.0016	0.020
Arsenic	0.0033	U	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.0042	U	0.0042	0.040

### TCLP SPLPE Leachate Blank - Batch: 600-17467

Method: 6010B  
Preparation: 3010A  
TCLP

Lab Sample ID: LB 600-17379/3-D  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/09/2009 0856  
Date Prepared: 07/08/2009 0922  
Date Leached: 07/06/2009 1440

Analysis Batch: 600-17523  
Prep Batch: 600-17467  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070909  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-17379

Analyte	Result	Qual	MDL	RL
Lead	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.021		0.0016	0.020
Arsenic	0.0078	J	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.011	J	0.0042	0.040

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### TCLP SPLPE Leachate Blank - Batch: 600-17467

Method: 6010B  
Preparation: 3010A  
TCLP

Lab Sample ID: LB 600-17301/1-F  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/09/2009 0925  
Date Prepared: 07/08/2009 0924  
Date Leached: 07/02/2009 1500

Analysis Batch: 600-17523  
Prep Batch: 600-17467  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070909  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-17301

Analyte	Result	Qual	MDL	RL
Lead	0.0029	U	0.0029	0.010
Chromium	0.0016	U	0.0016	0.010
Cadmium	0.00073	U	0.00073	0.0050
Barium	0.071		0.0016	0.020
Arsenic	0.0093	J	0.0033	0.010
Silver	0.0012	U	0.0012	0.010
Selenium	0.0098	J	0.0042	0.040

### Lab Control Sample - Batch: 600-17467

Method: 6010B  
Preparation: 3010A

Lab Sample ID: LCS 600-17467/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/09/2009 0834  
Date Prepared: 07/08/2009 0922

Analysis Batch: 600-17523  
Prep Batch: 600-17467  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: T070909  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	1.00	1.02	102	80 - 120	
Chromium	1.00	0.998	100	80 - 120	
Cadmium	0.500	0.502	100	80 - 120	
Barium	1.00	1.02	102	80 - 120	
Arsenic	1.00	1.01	101	80 - 120	
Silver	0.500	0.496	99	80 - 120	
Selenium	1.00	1.01	101	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Method Blank - Batch: 600-17381

Lab Sample ID: MB 600-17381/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2009 1332  
Date Prepared: 07/07/2009 1000

Analysis Batch: 600-17415  
Prep Batch: 600-17381  
Units: ug/L

Method: 7470A  
Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

### TCLP SPLPE Leachate Blank - Batch: 600-17381

Lab Sample ID: LB 600-17301/1-B  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/07/2009 1356  
Date Prepared: 07/07/2009 1000  
Date Leached: 07/02/2009 1500

Analysis Batch: 600-17415  
Prep Batch: 600-17381  
Units: ug/L

Leachate Batch: 600-17301

Method: 7470A  
Preparation: 7470A  
TCLP

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.18	J	0.021	0.20

### Lab Control Sample - Batch: 600-17381

Lab Sample ID: LCS 600-17381/8-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 07/07/2009 1334  
Date Prepared: 07/07/2009 1000

Analysis Batch: 600-17415  
Prep Batch: 600-17381  
Units: ug/L

Method: 7470A  
Preparation: 7470A

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	3.01	100	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Method Blank - Batch: 600-17173

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: MB 600-17173/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1230  
Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17273  
Prep Batch: 600-17173  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

### Lab Control Sample - Batch: 600-17173

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: LCS 600-17173/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/02/2009 1230  
Date Prepared: 07/01/2009 1150

Analysis Batch: 600-17273  
Prep Batch: 600-17173  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1760	1090	62	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Control Results

umber: 600-12080-1

ipment Assigned

10 mL  
250 mL

RL

250

ipment Assigned

10 mL  
250 mL

Qual

07/10/2009

EPAHO082002043

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

Lab Control Sample - Batch: 600-17024

Method: 9045C

Preparation: N/A

Lab Sample ID: LCS 600-17024/1

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 06/29/2009 0830

Date Prepared: N/A

Analysis Batch: 600-17024

Prep Batch: N/A

Units: SU

Instrument ID: No Equipment Assigned

Lab File ID: N/A

Initial Weight/Volume: 50 mL

Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.00	7.010	100	99 - 101	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Method Blank - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-17482/10

Analysis Batch: 600-17482

Instrument ID: No Equipment Assigned

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: BTU/lb

Initial Weight/Volume: 1.0263 g

Date Analyzed: 07/07/2009 1645

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte	Result	Qual	RL	RL
BTU	500	U	500	500

### Lab Control Sample - Batch: 600-17482

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-17482/1

Analysis Batch: 600-17482

Instrument ID: No Equipment Assigned

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: BTU/lb

Initial Weight/Volume: 0.9875 g

Date Analyzed: 07/07/2009 1645

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11200	98	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-12080-1

### Method Blank - Batch: 600-17227

Method: D92  
Preparation: N/A

Lab Sample ID: MB 600-17227/1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1300  
Date Prepared: N/A

Analysis Batch: 600-17227  
Prep Batch: N/A  
Units: Degrees F

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Flashpoint	>186		1.0	1.0

### Lab Control Sample - Batch: 600-17227

Method: D92  
Preparation: N/A

Lab Sample ID: LCS 600-17227/2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 07/01/2009 1300  
Date Prepared: N/A

Analysis Batch: 600-17227  
Prep Batch: N/A  
Units: Degrees F

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume:  
Final Weight/Volume: 60 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Flashpoint	81.0	82.0	101	96.91 - 103.09	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## DATA REPORTING QUALIFIERS

Client: Noltex LLC

Job Number: 600-12080-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

**Job Narrative**  
**600-J12080-1**

**GC/MS Semi VOA**

Method 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 17412 exceeded control limits for the following analytes: Pyridine.

No other analytical or quality issues were noted.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY RECORD

Loc: 600

12080

#1

600-12080-A-1

e: 1 of 1

TestAmerica Laboratories, Inc.

Customer Information			Project Information			Analysis/Methods																																																																																																																																																																																																																																																							
PO:			Project Name:	Waste Disposal		A	TCLP-Volatiles (8260)											K																																																																																																																																																																																																																																											
WO:			TAL Project No:	60000463		B	TCLP-Semivolatiles (8270)											L																																																																																																																																																																																																																																											
Company:	Noltex, LLC		Bill To:	Noltex, LLC		C	TLCP-Metals (6010/7470)											M																																																																																																																																																																																																																																											
Report to:	Joy Snodgrass		Invoice ATTN:	Joy Snodgrass		D	RCI											N																																																																																																																																																																																																																																											
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E-mail:	Joy_Snodgrass@noltex.com			Joy_Snodgrass@noltex.com		H												R																																																																																																																																																																																																																																											
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<table border="1"> <thead> <tr> <th>No.</th> <th>Sample Description</th> <th>Preservation</th> <th>Date</th> <th>Time</th> <th>Matrix</th> <th># Cont.</th> <th>Comments</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>H</th> <th>I</th> <th>J</th> <th>K</th> <th>L</th> <th>M</th> <th>N</th> <th>O</th> <th>P</th> <th>Q</th> <th>R</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>#325 Fast Filter Press</td> <td>NONE</td> <td>6/26/09</td> <td>10:30</td> <td>Waste</td> <td>3</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>																				No.	Sample Description	Preservation	Date	Time	Matrix	# Cont.	Comments	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	1	#325 Fast Filter Press	NONE	6/26/09	10:30	Waste	3		X	X	X	X	X														2																										3																										4																										5																										6																										7																										8																									
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Joy Snodgrass		6/26/09	Neil Rodriguez		6/26/09	Joy Snodgrass		6/26/09	Neil Rodriguez		6/26/09	Joy Snodgrass		6/26/09	Neil Rodriguez		6/26/09	Joy Snodgrass		6/26/09	Neil Rodriguez		6/26/09																																																																																																																																																																																																																																						
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TestAmerica Laboratories  
TAL Project Manager:

6310 Rothway Drive, Suite 130  
Neil Rodriguez 713-358-2006

Houston, TX 77040

Phone: 713.690.4444

Fax: 713.690.5646

EPAHQ082002049

07/1/2009

## Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-12080-1

Login Number: 12080

List Source: TestAmerica Houston

Creator: Trenery, Michael J

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	



**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

Job Number: 600-11197-1

Job Description: MeOH Feed Filter 6/1/09

For:

Noltex LLC

12220 Strang Road

La Porte, TX 77571-9740

Attention: Ms. Joy Snodgrass

*Neil A. Rodrigue*

Approved for release.  
Neil A Rodrigue  
Project Manager II  
6/11/2009 3:55 PM

---

Neil A Rodrigue

Project Manager II

neil.rodrigue@testamericainc.com

06/11/2009

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Houston Certifications and Approvals: TX NELAP T104704223-06-TX, ARDEQ 88-0759, LADEQ 01967, OKDEQ 9503, UT DOH GULF

**TestAmerica Laboratories, Inc.**

TestAmerica Houston 6310 Rothway Street, Houston, TX 77040

Tel (713) 690-4444 Fax (713) 690-5646 [www.testamericainc.com](http://www.testamericainc.com)



**Analytical Data**

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

**8260B Volatile Organic Compounds (GC/MS)-TCLP**

Method:	8260B	Analysis Batch:	600-16207	Instrument ID:	VOA-V
Preparation:	5030B			Lab File ID:	H16019.D
Dilution:	20	Leachate Batch:	600-16132	Initial Weight/Volume:	5 mL
Date Analyzed:	06/09/2009 1938			Final Weight/Volume:	5 mL
Date Prepared:	06/09/2009 1938				
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Benzene		22	U	22	100
Carbon tetrachloride		22	U	22	100
Chlorobenzene		18	U	18	100
Chloroform		18	U	18	100
1,2-Dichloroethane		22	U	22	100
1,1-Dichloroethene		23	U	23	100
2-Butanone (MEK)		32	U	32	200
Tetrachloroethene		46	U	46	100
Trichloroethene		26	U	26	100
Vinyl chloride		32	U	32	100
1,4-Dichlorobenzene		22	U	22	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	112	70 - 130
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	124	70 - 130
1,2-Dichloroethane-d4 (Surr)	95	70 - 130

**Analytical Data**

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)-TCLP**

Method:	8270C	Analysis Batch:	600-16299	Instrument ID:	MSD2348
Preparation:	3510C	Prep Batch:	600-16169	Lab File ID:	Z0610913.D
Dilution:	1.0	Leachate Batch:	600-16122	Initial Weight/Volume:	1000 mL
Date Analyzed:	06/10/2009 1915			Final Weight/Volume:	1.00 mL
Date Prepared:	06/09/2009 1512			Injection Volume:	1.0 uL
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
1,4-Dichlorobenzene		1.3	U	1.3	10
2,4-Dinitrotoluene		0.95	U	0.95	10
2,4,5-Trichlorophenol		1.3	U	1.3	10
2,4,6-Trichlorophenol		0.92	U	0.92	10
2-Methylphenol		1.0	U	1.0	10
3 & 4 Methylphenol		1.9	U	1.9	20
Hexachlorobenzene		0.90	U	0.90	10
Hexachlorobutadiene		1.1	U	1.1	10
Hexachloroethane		1.2	U	1.2	10
Nitrobenzene		1.2	U	1.2	10
Pentachlorophenol		0.89	U	0.89	50
Pyridine		1.0	U	1.0	10

Surrogate	%Rec	Acceptance Limits
Phenol-d6	31	10 - 94
Nitrobenzene-d5	87	35 - 114
2-Fluorophenol	47	21 - 100
2-Fluorobiphenyl	91	43 - 116
2,4,6-Tribromophenol	97	10 - 123
Terphenyl-d14	73	33 - 141

**Analytical Data**

Client: Noltex LLC

Job Number: 600-11197-1

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

**6010B Metals (ICP)-TCLP**

Method:	6010B	Analysis Batch:	600-16296	Instrument ID:	TJA ICP 61E
Preparation:	3010A	Prep Batch:	600-16250	Lab File ID:	J061109
Dilution:	1.0	Leachate Batch:	600-16122	Initial Weight/Volume:	50 mL
Date Analyzed:	06/11/2009 1101			Final Weight/Volume:	50 mL
Date Prepared:	06/10/2009 1555				
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Pb		0.0029	U	0.0029	0.010
Cr		0.0016	U	0.0016	0.010
Cd		0.00073	U	0.00073	0.0050
Ba		0.016	JB	0.0016	0.020
As		0.0099	JB	0.0033	0.010
Ag		0.0012	U	0.0012	0.010
Se		0.0042	U	0.0042	0.040

**7470A Mercury (CVAA)-TCLP**

Method:	7470A	Analysis Batch:	600-16247	Instrument ID:	Perkin Elmer
Preparation:	7470A	Prep Batch:	600-16195	Lab File ID:	N/A
Dilution:	1.0	Leachate Batch:	600-16122	Initial Weight/Volume:	40 mL
Date Analyzed:	06/10/2009 1506			Final Weight/Volume:	40 mL
Date Prepared:	06/10/2009 0900				
Date Leached:	06/08/2009 1630				

Analyte	DryWt Corrected: N	Result (ug/L)	Qualifier	MDL	RL
Mercury		0.021	U	0.021	0.20

**Analytical Data**

Client: Noltex LLC

Job Number: 600-11197-1

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**General Chemistry**

Client Sample ID: MeOH Feed Filter COMPOSITE

Lab Sample ID: 600-11197-4

Date Sampled: 06/01/2009 0240

Client Matrix: Solid

Date Received: 06/02/2009 1300

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	18	U	ug/Kg	18	250	1.0	9012
	Only Batch: 600-16157	Date Analyzed	06/09/2009	1301			DryWt Corrected: N
	Prep Batch: 600-16066	Date Prepared:	06/08/2009	1220			
Sulfide, Reactive	40	J	mg/Kg	14	50	1.0	7.4.4
	Only Batch: 600-16165	Date Analyzed	06/09/2009	1223			DryWt Corrected: N
	Prep Batch: 600-16066	Date Prepared:	06/08/2009	1220			
Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH	7.39	HF	SU	0.0100	0.0100	1.0	9045C
	Only Batch: 600-16015	Date Analyzed	06/05/2009	1020			DryWt Corrected: N
BTU	2100		BTU/lb	500	500	1.0	D240-87
	Only Batch: 600-16133	Date Analyzed	06/08/2009	1630			DryWt Corrected: N
Flashpoint	>212		Degrees F	1.0	1.0	1.0	D92
	Only Batch: 600-16176	Date Analyzed	06/09/2009	1530			DryWt Corrected: N

## METHOD SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Description		Lab Location	Method	Preparation Method
Matrix	Solid			
Volatile Organic Compounds (GC/MS)		TAL HOU	SW846 8260B	
	TCLP Extraction	TAL HOU		SW846 1311
	Purge and Trap	TAL HOU		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)		TAL HOU	SW846 8270C	
	TCLP Extraction	TAL HOU		SW846 1311
	Liquid-Liquid Extraction (Separatory Funnel)	TAL HOU		SW846 3510C
Metals (ICP)		TAL HOU	SW846 6010B	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Total Metals	TAL HOU		SW846 3010A
Mercury (CVAA)		TAL HOU	SW846 7470A	
	TCLP Extraction	TAL HOU		SW846 1311
	Preparation, Mercury	TAL HOU		SW846 7470A
Reactive Sulfide		TAL HOU	EPA 7.4.4	
	Sulfide, Reactive	TAL HOU		SW846 7.3.4
Cyanide, Reactive		TAL HOU	SW846 9012	
	Cyanide, Reactive	TAL HOU		SW846 7.3.3
Corrosivity		TAL HOU	SW846 9045C	
Heat of Combustion		TAL HOU	ASTM D240-87	
Flashpoint		TAL HOU	ASTM D92	

### Lab References:

TAL HOU = TestAmerica Houston

### Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Noltex LLC

Job Number: 600-11197-1

Method	Analyst	Analyst ID
SW846 8260B	Vela, Kenneth L	KLV
SW846 8270C	Dang, Tram T	TTD
SW846 6010B	Patel, Silen R	SRP
SW846 7470A	Lige, Derrick C	DCL
EPA 7.4.4	Walker, Gerald (Gerry) C	GCW
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9045C	Gregory, Sharita N	SNG
ASTM D240-87	Puranik, Surendra U	SUP
ASTM D92	Puranik, Surendra U	SUP

## **QUALITY CONTROL RESULTS**

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### TCLP SPLPE Leachate Blank - Batch: 600-16207

Method: 8260B

Preparation: 5030B

TCLP

Lab Sample ID: LB 600-16132/1-A

Analysis Batch: 600-16207

Instrument ID: VOA-V

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: H16005.D

Dilution: 20

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 06/09/2009 1343

Final Weight/Volume: 5 mL

Date Prepared: 06/09/2009 1343

Date Leached: 06/08/2009 1630

Leachate Batch: 600-16132

Analyte	Result	Qual	MDL	RL
Benzene	22	U	22	100
Carbon tetrachloride	22	U	22	100
Chlorobenzene	18	U	18	100
Chloroform	18	U	18	100
1,2-Dichloroethane	22	U	22	100
1,1-Dichloroethene	23	U	23	100
2-Butanone (MEK)	32	U	32	200
Tetrachloroethene	46	U	46	100
Trichloroethene	26	U	26	100
Vinyl chloride	32	U	32	100
1,4-Dichlorobenzene	22	U	22	100

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	116	70 - 130
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	129	70 - 130
1,2-Dichloroethane-d4 (Surr)	93	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16207

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 600-16207/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2009 1434  
Date Prepared: 06/09/2009 1434

Analysis Batch: 600-16207  
Prep Batch: N/A  
Units: ug/L

Instrument ID: VOA-V  
Lab File ID: H16007.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	1.1	U	1.1	5.0
Carbon tetrachloride	1.1	U	1.1	5.0
Chlorobenzene	0.92	U	0.92	5.0
Chloroform	0.92	U	0.92	5.0
1,2-Dichloroethane	1.1	U	1.1	5.0
1,1-Dichloroethene	1.2	U	1.2	5.0
2-Butanone (MEK)	1.6	U	1.6	10
Tetrachloroethene	2.3	U	2.3	5.0
Trichloroethene	1.3	U	1.3	5.0
Vinyl chloride	1.6	U	1.6	5.0
1,4-Dichlorobenzene	1.1	U	1.1	5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	118	70 - 130
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	126	70 - 130
1,2-Dichloroethane-d4 (Surr)	92	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16207

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 600-16207/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/09/2009 1227  
Date Prepared: 06/09/2009 1227

Analysis Batch: 600-16207  
Prep Batch: N/A  
Units: ug/L

Instrument ID: VOA-V  
Lab File ID: H16002.D  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	51.7	103	69 - 124	
Carbon tetrachloride	50.0	45.1	90	57 - 134	
Chlorobenzene	50.0	56.4	113	70 - 129	
Chloroform	50.0	49.8	100	69 - 128	
1,2-Dichloroethane	50.0	43.7	87	65 - 134	
1,1-Dichloroethene	50.0	49.0	98	45 - 136	
2-Butanone (MEK)	100	117	117	53 - 140	
Tetrachloroethene	50.0	52.9	106	59 - 134	
Trichloroethene	50.0	48.0	96	68 - 130	
Vinyl chloride	50.0	46.5	93	38 - 153	
1,4-Dichlorobenzene	50.0	53.7	107	72 - 131	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	111	70 - 130
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	109	70 - 130
1,2-Dichloroethane-d4 (Surr)	91	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Method Blank - Batch: 600-16169

Method: 8270C

Preparation: 3510C

Lab Sample ID: MB 600-16169/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2009 1431  
Date Prepared: 06/09/2009 1512

Analysis Batch: 600-16299  
Prep Batch: 600-16169  
Units: ug/L

Instrument ID: MSD2348  
Lab File ID: Z0610904.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	31	10 - 94
Nitrobenzene-d5	78	35 - 114
2-Fluorophenol	47	21 - 100
2-Fluorobiphenyl	76	43 - 116
2,4,6-Tribromophenol	74	10 - 123
Terphenyl-d14	71	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### TCLP SPLPE Leachate Blank - Batch: 600-16169

Method: 8270C

Preparation: 3510C

TCLP

Lab Sample ID: LB 600-16122/1-E

Analysis Batch: 600-16299

Instrument ID: MSD2348

Client Matrix: Solid

Prep Batch: 600-16169

Lab File ID: Z0610908.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 1000 mL

Date Analyzed: 06/10/2009 1645

Final Weight/Volume: 1.00 mL

Date Prepared: 06/09/2009 1512

Injection Volume: 1.0 uL

Date Leached: 06/08/2009 1630

Leachate Batch: 600-16122

Analyte	Result	Qual	MDL	RL
1,4-Dichlorobenzene	1.3	U	1.3	10
2,4-Dinitrotoluene	0.95	U	0.95	10
2,4,5-Trichlorophenol	1.3	U	1.3	10
2,4,6-Trichlorophenol	0.92	U	0.92	10
2-Methylphenol	1.0	U	1.0	10
3 & 4 Methylphenol	1.9	U	1.9	20
Hexachlorobenzene	0.90	U	0.90	10
Hexachlorobutadiene	1.1	U	1.1	10
Hexachloroethane	1.2	U	1.2	10
Nitrobenzene	1.2	U	1.2	10
Pentachlorophenol	0.89	U	0.89	50
Pyridine	1.0	U	1.0	10

Surrogate	% Rec	Acceptance Limits
Phenol-d6	36	10 - 94
Nitrobenzene-d5	89	35 - 114
2-Fluorophenol	55	21 - 100
2-Fluorobiphenyl	90	43 - 116
2,4,6-Tribromophenol	96	10 - 123
Terphenyl-d14	93	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 600-16169

Method: 8270C

Preparation: 3510C

LCS Lab Sample ID: LCS 600-16169/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2009 1501  
Date Prepared: 06/09/2009 1512

Analysis Batch: 600-16299  
Prep Batch: 600-16169  
Units: ug/L

Instrument ID: MSD2348  
Lab File ID: Z0610905.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

LCSD Lab Sample ID: LCSD 600-16169/3-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2009 1532  
Date Prepared: 06/09/2009 1512

Analysis Batch: 600-16299  
Prep Batch: 600-16169  
Units: ug/L

Instrument ID: MSD2348  
Lab File ID: Z0610906.D  
Initial Weight/Volume: 1000 mL  
Final Weight/Volume: 1.00 mL  
Injection Volume: 1.0 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,4-Dichlorobenzene	68	69	45 - 105	1	20		
2,4-Dinitrotoluene	85	84	61 - 162	1	20		
2,4,5-Trichlorophenol	79	81	59 - 123	3	20		
2,4,6-Trichlorophenol	78	78	30 - 143	1	20		
2-Methylphenol	60	62	34 - 109	4	20		
3 & 4 Methylphenol	64	67	27 - 113	4	20		
Hexachlorobenzene	84	85	62 - 121	1	20		
Hexachlorobutadiene	76	77	32 - 143	1	20		
Hexachloroethane	69	70	42 - 110	1	20		
Nitrobenzene	78	80	55 - 115	3	20		
Pentachlorophenol	70	67	44 - 142	4	20	J	J
Pyridine	43	38	10 - 109	12	40		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d6	37	39	10 - 94
Nitrobenzene-d5	85	85	35 - 114
2-Fluorophenol	49	52	21 - 100
2-Fluorobiphenyl	90	87	43 - 116
2,4,6-Tribromophenol	102	103	10 - 123
Terphenyl-d14	84	89	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### Method Blank - Batch: 600-16250

Method: 6010B  
Preparation: 3010A

Lab Sample ID: MB 600-16250/1-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2009 1049  
Date Prepared: 06/10/2009 1555

Analysis Batch: 600-16296  
Prep Batch: 600-16250  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: J061109  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.0016	U	0.0016	0.020
As	0.0033	U	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0042	U	0.0042	0.040

### TCLP SPLPE Leachate Blank - Batch: 600-16250

Method: 6010B  
Preparation: 3010A  
TCLP

Lab Sample ID: LB 600-16122/1-G  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/11/2009 1057  
Date Prepared: 06/10/2009 1555  
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16296  
Prep Batch: 600-16250  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: J061109  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Leachate Batch: 600-16122

Analyte	Result	Qual	MDL	RL
Pb	0.0029	U	0.0029	0.010
Cr	0.0016	U	0.0016	0.010
Cd	0.00073	U	0.00073	0.0050
Ba	0.0061	J	0.0016	0.020
As	0.0066	J	0.0033	0.010
Ag	0.0012	U	0.0012	0.010
Se	0.0044	J	0.0042	0.040

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

Lab Control Sample - Batch: 600-16250

Method: 6010B

Preparation: 3010A

Lab Sample ID: LCS 600-16250/2-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/11/2009 1053  
Date Prepared: 06/10/2009 1555

Analysis Batch: 600-16296  
Prep Batch: 600-16250  
Units: mg/L

Instrument ID: TJA ICP 61E  
Lab File ID: J061109  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pb	1.00	1.00	100	80 - 120	
Cr	1.00	0.981	98	80 - 120	
Cd	0.500	0.494	99	80 - 120	
Ba	1.00	1.01	101	80 - 120	
As	1.00	1.01	101	80 - 120	
Ag	0.500	0.490	98	80 - 120	
Se	1.00	1.00	100	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### Method Blank - Batch: 600-16195

Method: 7470A  
Preparation: 7470A

Lab Sample ID: MB 600-16195/7-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2009 1431  
Date Prepared: 06/10/2009 0900

Analysis Batch: 600-16247  
Prep Batch: 600-16195  
Units: ug/L

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

### TCLP SPLPE Leachate Blank - Batch: 600-16195

Method: 7470A  
Preparation: 7470A  
TCLP

Lab Sample ID: LB 600-16122/1-F  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/10/2009 1501  
Date Prepared: 06/10/2009 0900  
Date Leached: 06/08/2009 1630

Analysis Batch: 600-16247  
Prep Batch: 600-16195  
Units: ug/L

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.021	U	0.021	0.20

### Lab Control Sample - Batch: 600-16195

Method: 7470A  
Preparation: 7470A

Lab Sample ID: LCS 600-16195/8-A  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 06/10/2009 1433  
Date Prepared: 06/10/2009 0900

Analysis Batch: 600-16247  
Prep Batch: 600-16195  
Units: ug/L

Instrument ID: Perkin Elmer FIMS-100  
Lab File ID: N/A  
Initial Weight/Volume: 50 mL  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.00	2.77	92	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### Method Blank - Batch: 600-16066

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: MB 600-16066/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/09/2009 1223  
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16165  
Prep Batch: 600-16066  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Sulfide, Reactive	14	U	14	50

### Lab Control Sample - Batch: 600-16066

Method: 7.4.4

Preparation: 7.3.4

Lab Sample ID: LCS 600-16066/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/09/2009 1223  
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16165  
Prep Batch: 600-16066  
Units: mg/Kg

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	1780	1140	64	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### Method Blank - Batch: 600-16066

Method: 9012  
Preparation: 7.3.3

Lab Sample ID: MB 600-16066/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/09/2009 1301  
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16157  
Prep Batch: 600-16066  
Units: ug/Kg

Instrument ID: WC05 Lachat-1  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	18	U	18	250

### Lab Control Sample - Batch: 600-16066

Method: 9012  
Preparation: 7.3.3

Lab Sample ID: LCS 600-16066/2-A  
Client Matrix: Solid  
Dilution: 20  
Date Analyzed: 06/09/2009 1301  
Date Prepared: 06/08/2009 1220

Analysis Batch: 600-16157  
Prep Batch: 600-16066  
Units: ug/Kg

Instrument ID: WC05 Lachat-1  
Lab File ID: N/A  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	57400	6	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Noltex LLC

Job Number: 600-11197-1

### Method Blank - Batch: 600-16133

Method: D240-87

Preparation: N/A

Lab Sample ID: MB 600-16133/1  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/08/2009 1630  
Date Prepared: N/A

Analysis Batch: 600-16133  
Prep Batch: N/A  
Units: BTU/lb

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0090 g  
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
BTU	500	U	500	500

### Lab Control Sample - Batch: 600-16133

Method: D240-87

Preparation: N/A

Lab Sample ID: LCS 600-16133/2  
Client Matrix: Solid  
Dilution: 1.0  
Date Analyzed: 06/08/2009 1630  
Date Prepared: N/A

Analysis Batch: 600-16133  
Prep Batch: N/A  
Units: BTU/lb

Instrument ID: No Equipment Assigned  
Lab File ID: N/A  
Initial Weight/Volume: 1.0026 g  
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
BTU	11400	11000	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Login Sample Receipt Check List

Client: Noltex LLC

Job Number: 600-11197-1

Login Number: 11197

List Source: TestAmerica Houston

Creator: Claunch, Todd F

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	